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THE PORT OF HOUSTON, TEXAS

U. S. ARMY
CORPS OF ENGINEERS

PORT SERIES NO. 24
REVISED 1989

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CORPS OF ENGINEERS

PORT SERIES NO. 24
REVISED 1989

THE PORT OF
HOUSTON, TEXAS

PREPARED BY
THE WATER RESOURCES SUPPORT CENTER

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INTRODUCTION

This report on the Port of Houston, Texas, is published as No. 24 of the Port Series. It supersedes a similar report published in 1981.

The reports in the Port Series cover the principal United States coastal, Great Lakes, and inland ports, and are compiled and published by the Port Facilities Branch, Water Resources Support Center, U.S. Army Corps of Engineers, under authority of Section 7 of the River and Harbor Act of July 19, 1918, Section 500 of the Transportation Act of February 28, 1920, and Section 8 of the Merchant Marine Act of 1920.

Acknowledgment is made of the valuable assistance given by the Commander, U.S. Army Engineer District, Galveston, Texas; facility operators; port organizations; shipping and transportation companies; and city officials in the work of compiling data for this report.

Unless otherwise stated, the information contained in this report was current in April 1988. Additional revised data have been included through October 1988.

All data for this report was collected and processed by personnel of the Port Facilities Branch, Water Resources Support Center. We invite user comments to help us maintain an accurate and current port data file inasmuch as there is an average eight year interval between revisions. Please report any errors, additions, deletions, and changes directly to Water Resources Support Center, Port Facilities Branch, Casey Building, Fort Belvoir, Virginia 22060, telephone number (202)355-2495.

METRIC CONVERSION TABLE

Section 3 of Public Law 94-163, the Metric Conversion Act of 1975, declares that the policy of the United States shall be to coordinate and plan the increasing use of the metric system in the United States.

As an initial step, in accordance with the Metric Conversion Act of 1975, this Metric Conversion Table is included in this Port Series Report.

MULTIPLY	BY	TO OBTAIN
Inches	2.54001	Centimeters
Feet	0.304801	Meters
Miles, statute	1.60935	Kilometers
Square feet	0.0929034	Square meters
Acres	0.404687	Hectares
Pounds per square foot	4.88241	Kilograms per square meter
Tons, short	0.907185	Metric tons
Tons, long	1.01605	Metric tons
Gallons	3.78543	Liters
Degrees, Fahrenheit	5/9 (F-32)	Degrees, Celsius
Barrels, oil	1.58988	Hectoliters
Bushels	0.0352391	Cubic meters

THE PORT OF HOUSTON, TEXAS

PORT AND HARBOR CONDITIONS

LOCATION AND GENERAL DESCRIPTION

The Port of Houston, Texas, is in the southeastern part of the state, 480 nautical miles west of New Orleans, via the Southwest Pass of the Mississippi River, and 326 nautical miles northeast of Brownsville, Texas. The port area includes the Houston Ship Channel and its tributary channels and basins extending from Morgan Point, at the head of Galveston Bay, to and including a turning basin within the city limits of Houston; Buffalo Bayou extending from the turning basin to the Main Street Bridge; and the port facilities at Bayport near Red Bluff on the west side of upper Galveston Bay. All of the port lies within Harris County, and the waterfront area includes the towns and communities of Bayport, Baytown, Morgan Point, Lynchburg, Deer Park, Pasadena, Galena Park below the city limits of Houston, and the subdivisions of Manchester, Harrisburg, and Magnolia Park within Houston.

The Houston Ship Channel extends north-northwestward from Bolivar Roads across Galveston Bay to Morgan Point, thence up the San Jacinto River to the mouth of the Buffalo Bayou at Lynchburg, and thence up the Buffalo Bayou to the Houston Turning Basin at the head of the channel. The channel is about 50 miles long, of which 25 miles are across Galveston Bay and 25 miles are in the San Jacinto River and Buffalo Bayou. A shallow-draft channel extends up the Buffalo Bayou from the Houston Turning Basin to the White Oak Bayou at Main Street Bridge in Houston, a distance of about 5.5 miles.

Galveston Bay is an irregularly-shaped, shallow body of water, approximately 30 miles long in a general north-northeast and south-southwest direction, about 17 miles in width at its widest part, and generally about 7 to 9 feet deep. Midway the length of the bay, it is nearly separated into two parts by Red Fish Bar, a chain of small islets and shoals. The part of the bay northward of Red Fish Bar is generally designated as "Upper Bay" and the part southward, as "Lower Bay." The northeastern end of the Upper Bay is called Trinity Bay. Ship channels to Houston, Galveston, Texas City, and Port Bolivar extend from Bolivar Roads in the southern part of Galveston Bay.

From the Gulf of Mexico, deep-draft vessels enter Galveston Bay between Bolivar Peninsula to the northeast and Galveston Island to the south. This entrance is called Galveston Harbor and should not be confused with the Port of Galveston. Galveston Harbor extends from deep water in the Gulf of Mexico through the pass formed by the jetties extending from Galveston Island and Bolivar Peninsula to Bolivar Roads, the deepwater area between Bolivar Point and Pelican Island Fort Point.

The Apalachee Bay, Florida, to Brownsville, Texas, section of the Gulf Intracoastal Waterway extends through the lower part of Galveston Bay. This route follows a dredged channel inshore along Bolivar Peninsula, through Bolivar Roads, and joins Galveston Channel at its east end. From the west end of Galveston Channel, the route passes through the lower part of Galveston Bay and continues through West Bay. In the Galveston port area, an alternate route of the Intracoastal Waterway (bypassing the Galveston Channel) crosses the Houston Ship and Texas City Channels and passes through the northern end of Pelican Island.

HARBOR AND CHANNEL IMPROVEMENTS BY THE UNITED STATES

The existing project for Galveston Harbor and Channel was authorized by the River and Harbor Act of 5 August 1886 and modified by subsequent acts, of which the latest is dated 3 July 1958; and the existing project for the Houston Ship Channel was authorized initially by the River and Harbor Act of 5 March 1905 and modified by subsequent acts, the latest of which is dated 27 October 1965.

In addition to the improvements, the existing project for the Houston Ship Channel provides for construction of certain cut-offs, for easing sharp bends, for construction of an earthen dam across the upper end of Turkey Bend, for the construction of 26,000 lineal feet of pile dike to protect the channel in upper Galveston Bay, and for the construction of such off-channel silting basins as deemed necessary by the Chief of Engineers. The existing project is completed, except for the following inactive portions:

> Improvement of the upper 1.16 mile section of Green Bayou Channel; deepening the Houston Ship Channel to 40 feet from the Southern Pacific Slip to Brady Island; construction of 26,000 lineal feet of pile dike in upper Galveston Bay; and the extension of the Light Draft Channel in Buffalo Bayou from Jensen Drive to White Oak Bayou.

The channel dimensions and waterways authorized by the existing Federal projects, the controlling depths in the various improved channels, and the dates of survey are shown in the table on page 4. All depths refer to the plane of mean low tide.

HARBOR AND CHANNEL IMPROVEMENTS BY LOCAL INTERESTS

Improvement of the waterway to Houston began on 7 April 1857 when the State of Texas awarded a contract for dredging a channel across Clopper Bar in Galveston Bay at the mouth of the San Jacinto River. The Houston Direct Navigation Company and the Buffalo Bayou Ship Channel Company were organized in 1866 and 1869, respectively, to inprove navigation between Galveston and Houston. In 1876, the Buffalo Bayou Ship

Channel Company completed work on a channel 14 feet deep and 100 feet wide across Morgan Point and for a distance of about 5 miles into upper Galveston Bay; this channel was known as Morgan Cut and Canal.

The Corps of Engineers recommended in 1877 that a channel 12 feet deep and 100 feet wide be dredged across Galveston Bay from Bolivar Roads to the Morgan Canal, provided the Morgan Cut and Canal were sold to the United States. This was authorized by the United States Congress and agreed to by the Buffalo Bayou Ship Channel Company. The channel was completed in 1889, and the United States purchased the Morgan Cut and Canal in 1892. In 1913-14, the city of Houston dredged the section of Buffalo Bayou between the Houston Turning Basin and the mouth of White Oak Bayou at Main Street to a depth of 8 feet and a width of 40 feet.

Local interests have dredged and maintained berthing areas at the wharves and docks to be commensurate with the project depths of the Houston Ship Channel. Several private slips and channels have also been dredged from the ship channel to waterfront terminals, including Union Equity Slip; Tucker Bayou Slip; Goodpasture Slip; Millray Barge Canal; and Carpenter Bayou Barge Channel.

The Barbours Cut Ship Channel, adjacent to the Barbour Terminal Channel included in the Federal project, is maintained by the Port of Houston Authority; the channel is 42 feet deep, 300 feet wide, and 0.8 mile long. At this location, the Port of Houston Authority owns and operates Barbours Cut Terminal.

In 1970, the Port of Houston Authority completed dredging a barge channel across San Jacinto Bay extending from the Houston Ship Channel to a turning basin on the west side of the bay; the channel is 12 feet deep, 100 feet wide, and about 2.5 miles long.

In 1979, the Bayport Division, Port of Houston Authority, completed dredging a barge channel and turning basin to serve waterfront facilities at the large Bayport Industrial Development area located off the west side of upper Galveston Bay. This channel had a depth of 36 feet over a bottom width of 300 feet and extended 1.8 miles inland from the bay shore to a 1,900- by 1,600-foot turning basin.

TIDAL RANGE AND CURRENTS

Under ordinary conditions, mean tidal range is 0.6 ot 1.3 feet in the lower and upper parts of Galveston Bay and 0.5 to 1.0 foot in the San Jacinto River and Buffalo Bayou; extreme ranges are about 2.0 feet in the lower part of Galveston Bay, 1.2 feet in the upper part of the bay, and 1.0 foot in San Jacinto River and Buffalo Bayou. Freshets cause rises of over 12 feet in Buffalo Bayou; however, this condition has not occurred since completion of Addicks and Barker Dams for flood control on the upper watershed of Buffalo Bayou. Height of tides is dependent largely on the wind, and during storm "northers" in winter season, the water surface of Galveston Bay may be depressed 2 feet below mean low tide.

PROJECT DIMENSIONS AND CONTROLLING DEPTHS

NAME OF CHANNEL OR RANGE	DATE OF SURVEY	AUTHORIZED PROJECT DIMENSIONS			CONTROLLING DEPTHS (FEET)		
		WIDTH (FEET)	LENGTH (MILES)	DEPTH (FEET)	LEFT OUTSIDE QUARTER	MIDDLE HALF	RIGHT OUTSIDE QUARTER
CEDAR BAYOU							
From Houston Ship Channel U.S. Steel Dock	4-88	100	5.5	11	8.0	9.0	8.0
From U.S. Steel Dock to Houston Light and Power Co. Cut-Off Channel	6-80	(a)	2.0	(a)	7.0	7.0	6.0
From Houston Light and Power Cut-Off Channel to Houston Light and Power Co. Plant (b)	8-80	100	4.3	18	9.0	11.0	10.0
From Houston Light and Power Co. Plant to Hwy. 146 Bridge	8-80	(a)	2.0	(a)	9.0	10.0	6.0
ATKINSON ISLAND							
Barge Mooring Basin	10-86	100-150	1.8	12	12.0	12.0	12.0
BARBOUR TERMINAL CHANNEL							
Entrance Channel from Houston Ship Channel (c)	n/a	100	1.3	16	(c)	(c)	(c)
Turning Basin	n/a	1,100	0.2	16	(c)	(c)	(c)
GREENS BAYOU CHANNEL							
From first bend to Parker Brothers Slip	5-87	150-100	1.3	15	17.0	17.0	17.0
					LEFT HALF		RIGHT HALF
BRADY ISLAND CHANNEL							
Upstream from Cypress Street Bridge (d)	12-87	50	0.3	10	12.0		12.0
Downstream from Cypress Street Bridge	12-87	50	0.5	10	11.5		11.0
CHANNEL IN BUFFALO BAYOU							
Houston Turning Basin to 69th Street Bridge	1-87	60	0.8	10	10.0		10.0
69th Street Bridge to Lockwood Drive Bridge	1-87	60	1.5	10	8.0		8.0
Lockwood Drive Bridge to Jensen Street Bridge	1-87	60	1.7	10	6.0		6.0
Turkey Bend Channel	1-87	60	0.8	10	8.0		8.0
Jensen Street Bridge to Southern Pacific Dock	6-75	60	0.6	(e)	8.0		7.0

(a) Dredged channel to U.S.Steel, natural channel upstream.
(b) Privately maintained by Houston Light and Power.
(c) Port of Houston Authority maintains a channel for 1.1 miles and turning basin 1,100 feet wide, all at 42-foot depth.
(d) At Cypress Bridge controlling depths are 6.0 feet (6-87).
(e) Natural channel.

ANCHORAGES

Vessels are prohibited from anchoring in the Houston Ship Channel or turning basin except in cases of emergency, in which circumstances they shell anchor as near as possible to the channel edge or turning basin so as not to interfere with free navigation or obstruct the approach to any pier.

Vessels may anchor in the Gulf of Mexico in the Galveston Entrance Anchorage Areas, just inshore of the intersection of the Galveston Safety Fairway with the Coastwise Fairway. Inside Galveston Harbor, a federally designated anchorage area has been established along the north side of the Inner Bar Channel; this area is shown on the accompanying Port Facilities Map, and is described as follows:

> Bounded by the north edge of the channel, extending west from Buoy "10", latitude 29°20'48.5", longitude 94°42'52.5"; thence to Buoy "12", latitude 29°20'43", longitude 94°44'46.5"; thence 029° to Buoy "B", latitude 29°21'15", longitude 94°44'27"; thence 096° to Buoy "A", latitude 29°21'05.3", longitude 94°42'51.4"; thence 183°30' to the point of beginning.

This anchorage area is for temporary use of vessels of all types, but especially for naval and merchant vessels awaiting favorable weather and travel conditions. Except when stress of weather makes sailing hazardous, vessels are not permitted to anchor in this area for periods exceeding 48 hours, unless longer periods are expressly authorized by the Captain of the Port.

In Galveston Bay, small craft can anchor anywhere outside the dredged channels where the depth is sufficient. The water in the bay may be lowered as much as 2 feet by a "norther," and vessels should anticipate this when selecting an anchorage during the winter.

BRIDGES AND TUNNELS

Bridges crossing the main Houston Ship Channel and the navigable portions of waterways tributary to it, and the bridges crossing Buffalo Bayou above the Houston Turning Basin to Main Street are described in the table on page 6.

Two vehicular tunnels cross under the main Houston Ship Channel. The Baytown--La Porte Tunnel (State Highway No. 146) crosses below Baytown, and the Washburn Tunnel crosses between Cotton Patch and Vince Bayous and connects Pasadena with Galena Park.

It is also noted that vertical clearances listed in the table on page 6 may not be completelv accurate due to subsidence occurring throughout the Houston area.

LIST OF BRIDGES

MILES ABOVE MOUTH	LOCATION AND NAME	TYPE	CLEARANCE (FEET)		
			HORIZONTAL	VERTICAL	
				L.W.	H.W.
	HOUSTON SHIP CHANNEL				
47.2	Interstate Highway 610	Fixed.	400	140	135
	SAN JACINTO RIVER				
2.4	Interstate Highway 10	Fixed.	165	28	26
2.5	Interstate Highway 10	Fixed.	165	28	26
5.0	Missouri Pacific Railroad	Fixed.	145	26	24
	GREENS BAYOU				
2.8	Port Terminal Railroad	Fixed.	74	27	25
3.0	Missouri Pacific Railroad	Fixed.	75	25	23
3.2	Market Street Road	Fixed.	168	26	24
	HARRISBURG BEND				
-	Cypress Street-Brady Island	Fixed.	40	12	11
	BRAYS BAYOU				
0.2	Broadway-Harrisburg	Fixed.	92	27	23
0.3	Port Terminal Railroad	Fixed.	81	28	23
0.8	Galveston, Houston, and Henderson Railroad	Fixed.	93	16	12
	BUFFALO BAYOU				
0.1	Southern Pacific Transportation Co.	Swing.	100	29(1)	25(1)
0.6	69th Street (U.S. Hwy. 90A)	Fixed.	234	52	47
0.7	Wayside Drive (U.S. Hwy. 90A)	Fixed.	248	54	49
0.8	69th Street (U.S. Hwy. 90)	Bascule.	96	34	29
1.2	Houston Belt & Terminal Railroad	Swing.	84	32	27
2.3	Lockwood Drive	Vertical lift.	106	32	27(2)
2.8	Hirsch Street	Fixed.	102	49	43
3.1	Southern Pacific Transportation Co.	Swing.	74	35	29
3.8	Jensen Drive	Fixed.	121	39	33
4.3	Houston Belt & Terminal Railroad	Bascule.	91	27	21
4.6	Houston Belt & Terminal Railroad	Fixed.	82	34	28
4.7	Eastex Expressway (U.S. Hwy. 59)	Fixed.	130	62	56
4.9	Crawford-Elysian Viaduct	Fixed.	101	55	49
5.0	McKee Street	Fixed.	71	40	34
5.2	Galveston, Houston & Henderson Railroad	Fixed.	99	41	35
5.6	San Jacinto Street	Fixed.	110	35	28
5.7	Main Street	Fixed.	150	51	44

(1) North draw.

(2) 57 feet, up position; 27 feet, closed position.

WEATHER CONDITIONS

The climate of the Houston area is predominantly marine, and the temperatures are moderated by winds from the Gulf of Mexico resulting in mild winters and relatively cool summer nights. Another effect of the nearness of the Gulf is abundant rainfall, except for rare extended dry periods.

The normal rainfall is about 47.19 inches and is well distributed throughout the year. Thunderstorms are the main source of rainfall, and precipitation may vary substantially in different parts of the city on a day-to-day basis.

Prevailing winds are from the southeast and south, except in January, when frequent passages of high pressure areas bring invasions of polar air and prevailing northerly winds. Tropical storms occasionally pass through the area.

The average number of days with minimum temperatures of 32 degrees or lower is about seven per year in the city, and about 15 at the William P. Hobby Airport. Most freezing temperatures last only a few hours. In the city, the average date of the first 32-degree temperature is December 11th and the last is February 5th.

The information given in the table below was compiled from records of the United States Weather Bureau Station in Houston, Texas, and furnished by the Environmental Data and Information Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, for use in this report.

METEOROLOGICAL DATA FOR PERIOD OF RECORD

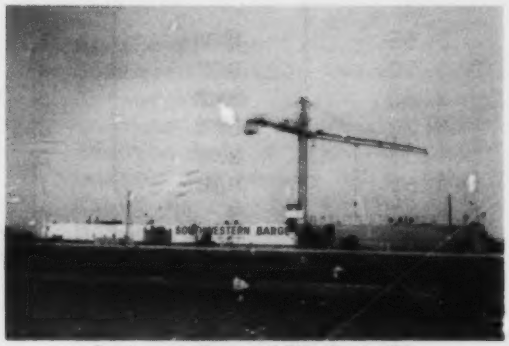
TIME	NORMAL DAILY TEMPERATURE F°		NORMAL TOTAL PRECIPITATION (INCHES)	PREVAILING DIRECTION OF WINDS	HEAVY FOG (DAYS)
	MAXIMUM	MINIMUM			
No. of Years	30	30	30	30	30
January......	60.6	39.9	3.59	NNW	6
February.....	65.2	42.7	3.12	SSE	4
March........	72.7	50.5	2.65	SSE	3
April........	78.8	57.5	3.33	SSE	3
May..........	84.7	64.6	4.79	SSE	2
June.........	90.5	70.6	4.51	SSE	1
July.........	93.5	72.6	4.11	S	*
August.......	93.1	72.4	4.08	SSE	1
September....	88.3	68.4	4.70	SSE	1
October......	81.1	58.4	4.05	ESE	3
November.....	71.5	49.2	4.09	SSE	4
December.....	65.0	43.2	4.09	SSE	5
Year	78.7	57.5	47.12	SSE	32

Mobay Corp., Baytown Plant Barge Dock
(P.W.D. Ref. No. 4)

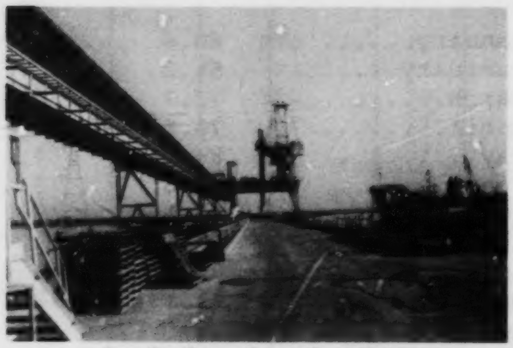
Exxon Co., U.S.A., Pier No. 7
(P.W.D. Ref. No. 15)

Houston Marine Services Terminal
(P.W.D. Ref. No. 17)

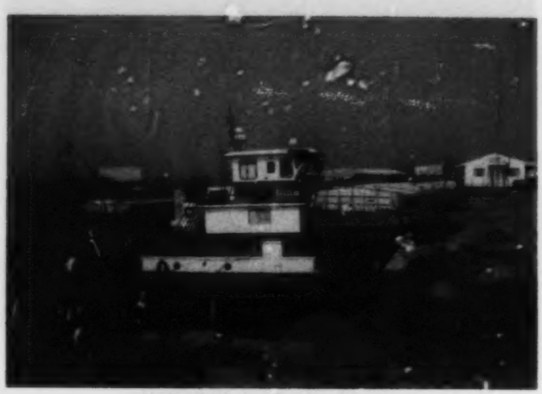
Anahuac Towing and Shell Co. Dock
(P.W.D. Ref. No. 22)



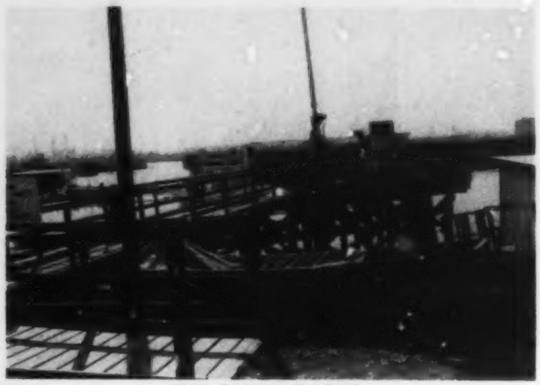
Southwestern Barge and Fleet Service Inc.
(P.W.D. Ref. No. 26)



Lone Star Falcon Cement Co., Wharf
(P.W.D. Ref. No. 36)



National Marine Service, Mooring
(P.W.D. Ref. No. 37)



Koch Refining Co. Dock
(P.W.D. Ref. No. 38)

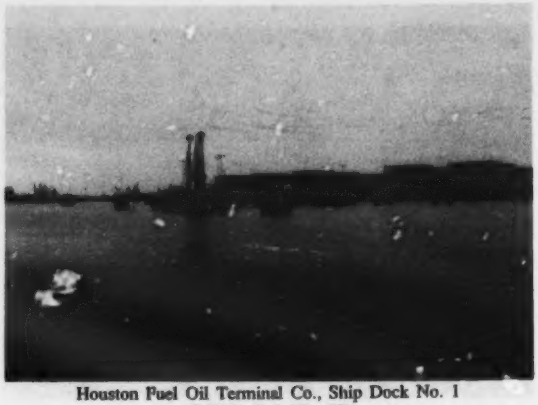
Hollywood Fleeting Service Tug Boat Dock
(P.W.D. Ref. No. 42)

Hollywood Fleeting Service Tug Boat Dock and Slip
(P.W.D. Ref. No. 42)

Delta Engineering Corp. Dock
(P.W.D. Ref. No. 48)

J. Haltermann, Ltd., Dock
(P.W.D. Ref. No. 52)

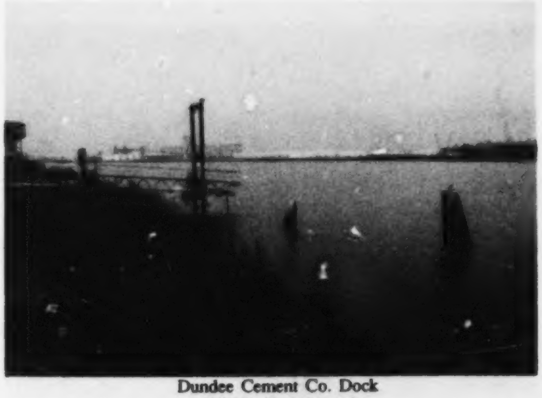
Mosher Steel Co. Barge Slip and Craneway
(P.W.D. Ref. No. 53)



Houston Fuel Oil Terminal Co., Ship Dock No. 1
(P.W.D. Ref. No. 55)

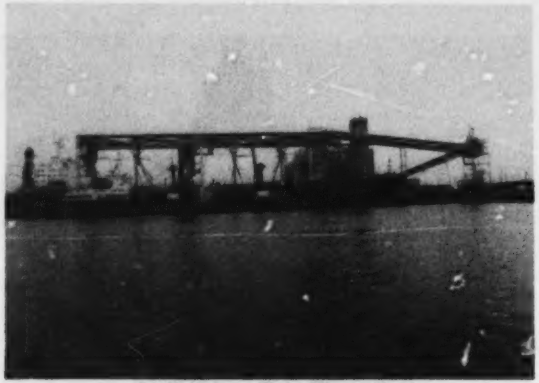
Houston Fuel Oil Terminal Co., Barge Dock No. 1
(P.W.D. Ref. No. 58)

Inbesa America Ship Dock
(P.W.D. Ref. No. 60)



Dundee Cement Co. Dock
(P.W.D. Ref. No. 63)

Cargill Houston Grain Elevator Dock
(P.W.D. Ref. No. 64)

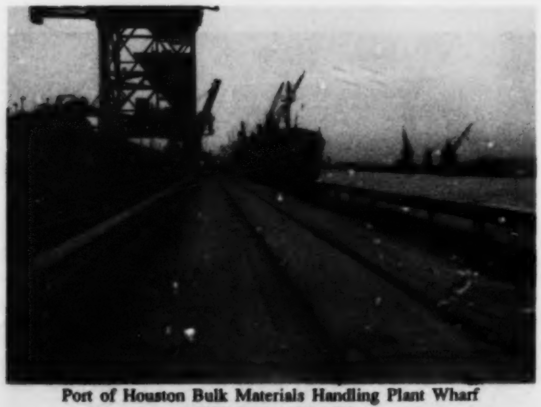


Cargill Houston Grain Elevator Dock
(P.W.D. Ref. No. 64)

Cargo Carriers Dock
(P.W.D. Ref. No. 65)

Oiltanking Ship Dock, Berths Nos. 2 and 3
(P.W.D. Ref. No. 67)

Oiltanking Ship Dock, Berth No. 1
(P.W.D. Ref. No. 68)



Port of Houston Bulk Materials Handling Plant Wharf
(P.W.D. Ref. No. 72)

Brown and Root Marine Operations, Upper Barge Wharf
(P.W.D. Ref. No. 83)

TXTX Marine, Inc., Lower Wharf
(P.W.D. Ref. NO. 94)

Amerada Hess Corp.
(P.W.D. Ref. No. 96 - 101)

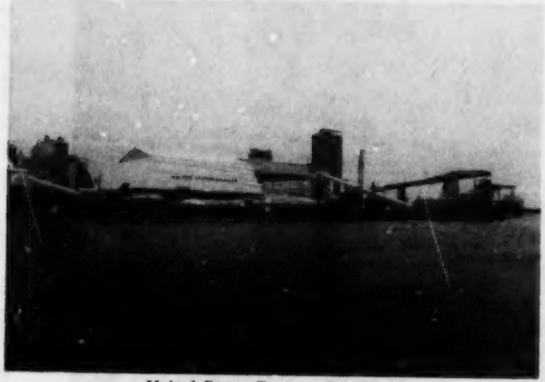
Warren Petroleum Corp. Dock No. 5
(P.W.D. Ref. No. 108)

GATX Galena Park Terminal, Barge Dock No. 3
(P.W.D. Ref. No. 109)

GATX Galena Park Terminal, Ship Dock No. 3
(P.W.D. Ref. No. 110)

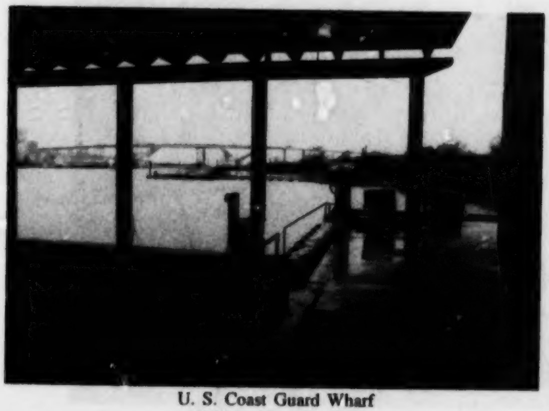
Paktank Corp., Galena Park Terminal Dock
(P.W.D. Ref. No. 115)

International Terminal Corp., Grain Wharf
(P.W.D. Ref. No. 118)



United States Gypsum Co. Wharf
(P.W.D. Ref. No. 119)

Dravo Basic Material Co. Dock
(P.W.D. Ref. No. 121)



U. S. Coast Guard Wharf
(P.W.D. Ref. No. 125)

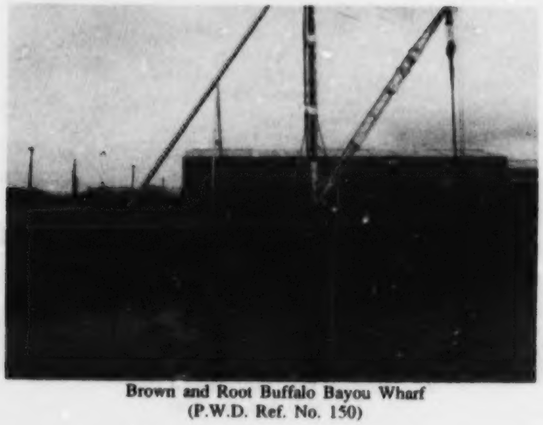
Port of Houston Public Wharves Nos. 18 and 19
(P.W.D. Ref. No. 137)

General View of Upper end of Houston Ship Channel

Port of Houston, Open Public Wharves Nos. 17, 16 and 15
(P.W.D. Ref. Nos. 138 - 140)

Port of Houston, Public Wharves Nos. 11 - 14
(P.W.D. Ref. Nos. 141 - 143)

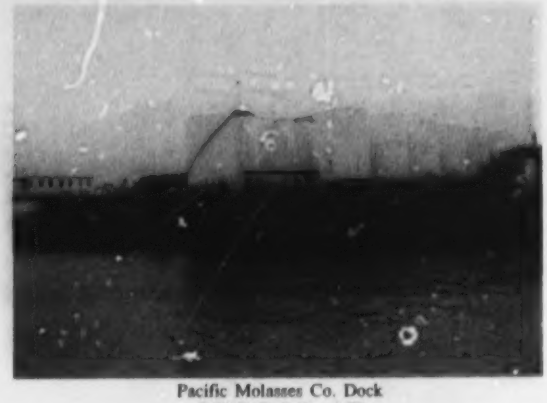
Houston Turning Basin
(P.W.D. Ref. Nos. 143 - 147)



Brown and Root Buffalo Bayou Wharf
(P.W.D. Ref. No. 150)

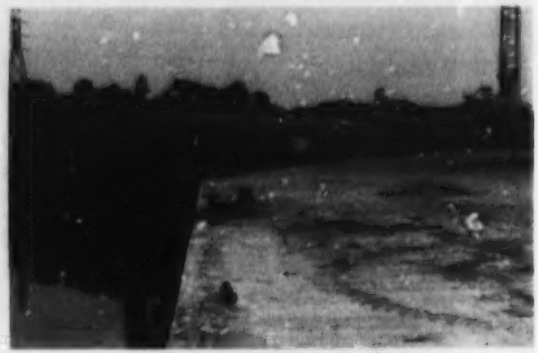
Gulf States Asphalt Dock
(P.W.D. Ref. No. 160)

Port of Houston, Public Wharf No. 4
(P.W.D. Ref. No. 161)



Pacific Molasses Co. Dock
(P.W.D. Ref. No. 167)

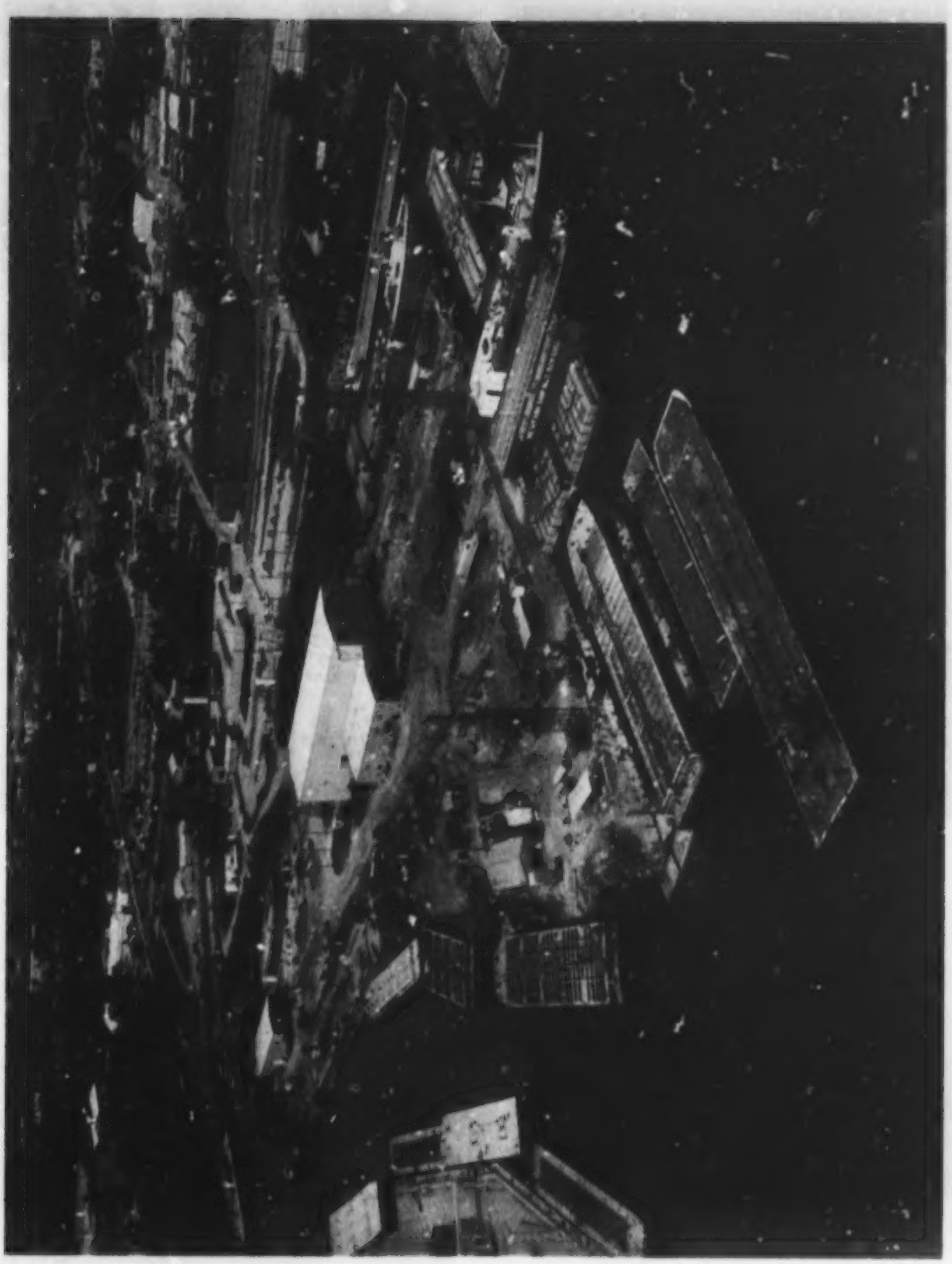
Port of Houston, Public Wharves Nos. 41 thru 48
(P.W.D. Ref. No. 168)



Pacific Eastern Terminals, Inc., Dock
(P.W.D. Ref. No. 170)

Houston Ship Repair, Brady Island Wharf
(P.W.D. Ref. No. 172)

Newpark Ship, Ship Channel Dock
(P.W.D. Ref. No. 174)



Newpark Shipbuilding and Repair, Inc. South Ways Slip.
(P.W.D. Ref. Nos. 173 - 177)

Newpark Ship, East Point Dolphin and South Wet Dock
(P.W.D. Ref. No. 175)

Newpark Ship, South Building Ways Fitting Out Dock
(P.W.D. Ref. No. 176)

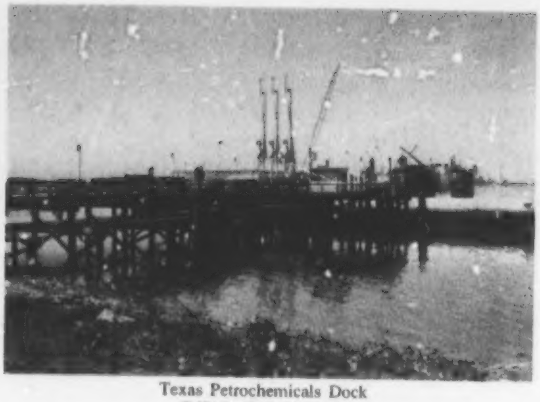
Buffalo Marine Service, Tug and Barge Mooring
(P.W.D. Kef. No. 179)

Lone Star Industries, Cement Dock
(P.W.D. Ref. No. 181)

Port of Houston, Manchester Fireboat Dock
(P.W.D. Ref. No. 187)

Hill Petroleum Co., Traweek Dock
(P.W.D. Ref. No. 190)

TXT Marine Dock
(P.W.D. Ref. No. 194)


Texas Petrochemicals Dock
(P.W.D. Ref. No. 195)

Simpson Pasadena Paper Co., Wharf
(P.W.D. Ref. No. 203)

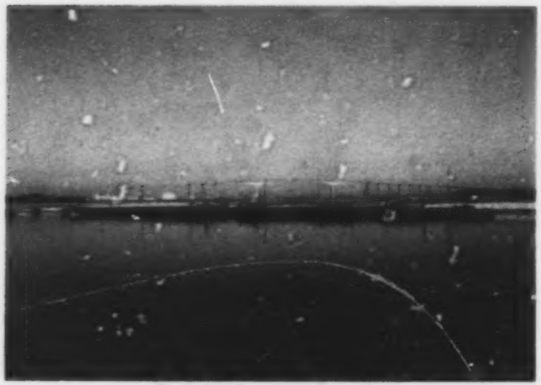
Crown Central Petroleum Corp., Barge Slip
(P.W.D. Ref. No. 205)

GATX Pasadena Terminal, Barge Dock No. 2
(P.W.D. Ref. No. 207)

GATX Pasadena Terminal, Barge Dock
(P.W.D. Ref. No. 208)

John Bludworth Marine, West Dock
(P.W.D. Ref. No. 210)

Kerley AG Products, Barge Dock
(P.W.D. Ref. No. 215)

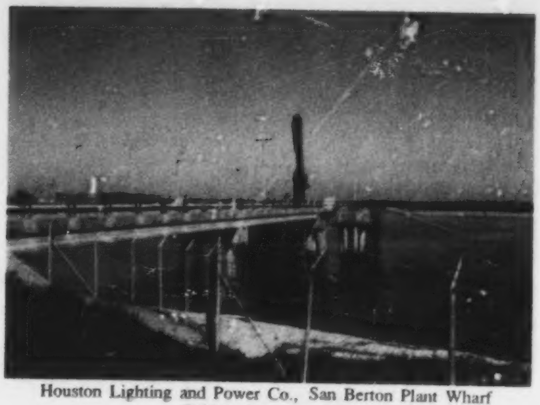

Shell Oil Co., Barge Mooring
(P.W.D. Ref. No. 222)

Shell Oil Co., Dock No. 3
(P.W.D. Ref. No. 225)

International Terminals, Inc., Ship Dock Nos. 1, 2, and 3
(P.W.D. Ref. No. 235)

Union Equity Co-operative Exchange, Grain Pier
(P.W.D. Ref. No. 236)

San Jacinto State Park Ferry Slip
(P.W.D. Ref. No. 244)


Houston Lighting and Power Co., San Berton Plant Wharf
(P.W.D. Ref. No. 245)

Quantum U.S.I. Division, Barge Dock
(P.W.D. Ref. No. 246)

E. I. du Pont La Porte Plant, Upper Barge Dock
(P.W.D. Ref. No. 248)

Tenneco Oil Co., Fractionating Plant Wharf
(P.W.D. Ref. No. 250)

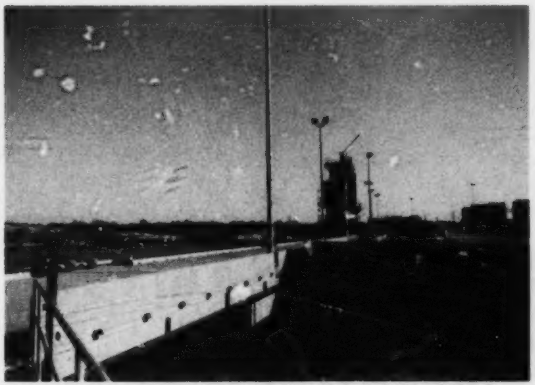
Port of Houston Barbours Cut Terminals Nos. 2 and 1
(P.W.D. Ref. Nos. 254 and 255)

Port of Houston, Barbours Cut LASH Vessel
Mooring Wharf and Barbour Cut Fireboat Dock
(P.W.D. Ref. Nos. 257 and 258)

Petro United, Bayport Terminal Barge Dock
(P.W.D. Ref. No. 260)

Celanese Chemical Co., Bayport Terminal Barge Slip
(P.W.D. Ref. No. 262)

Celanese Chemical Co., Bayport Ship Terminal Dock
(P.W.D. Ref. No. 263)



Baytank (Houston), Bayport Ship Terminal Wharf No. 2
(P.W.D. Ref. No. 265)

Baytank (Houston), Bayport Barge Slip Nos. 1 and 2
(P.W.D. Ref. Nos. 266 and 267)

PORT OF HOUSTON, TEXAS

PORT AND HARBOR FACILITIES

PIERS, WHARVES, AND DOCKS

Two hundred and sixty-seven piers, wharves, and docks are described in this report for the Port of Houston. These waterfront facilities are located on the Houston Ship Channel and its tributary channels extending from Morgan Point to and including the Houston Turning Basin, on the Buffalo Bayou extending from the Basin to the Main Street Viaduct, and on the west side of upper Galveston Bay at Bayport including Cedar Bayou.

Each facility is described under a reference number in the table of Piers, Wharves, and Docks beginning on page 32. These reference numbers designate facility locations on the accompanying Port Facilities Maps.

The waterfront facilities in the port used exclusively by recreational or active military craft and generally those providing non-maritime use are not included in this report.

The table on the following pages summarizes the functional uses of the various piers, wharves, and docks. Many of these wharves are used for multiple purposes as indicated in the table; each can be identified by its respective P.W.D. reference number.

A summary of the facilities engaged in general cargo handling in the port is given in the table on pages 30 and 31.

PURPOSE FOR WHICH USED

LOCATION	A					B		LEFT BANK, HOUSTON SHIP CHANNEL											C				D				
P.W.D. REFERENCE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Cargo handling:																											
Asphalt														●													
Bulk cargo (dry misc.)			●																								
Chemicals				●						●																	
Crude oil	●																										
Feed stocks																								●			
Fuel oil															●												
Petrochemicals				●				●		●			●									●		●			
Petroleum products								●		●			●		●										●		
Sand/gravel					●	●	●														●						
Scrap metal		●																									
Steel/steel products		●																					●				
Sulfuric acid									●																		
Sulphur														●													
Bunkering (vessels)								●		●	●																
Bunkering (supplying barges)												●															
Ferry (passenger and vehicular)																			●								
Fueling																		●									
Marine repair/conversion																				●						●	
Drydocking																				●						●	
Tank cleaning/gas-freeing																				●						●	
Handling construction supplies and equipment																							●				
Mooring:																											
Barges																											●
Ferry boats																		●									
Harbor craft/tugs																●											●
Company-owned equipment																	●										
Miscellaneous																											

LOCATION	E						F		G	LEFT BANK, CARPENTERS BAYOU											H					G	
P.W.D. REFERENCE NUMBER	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
Cargo handling:																											
Cement									●																		
Fuel oil																											●
Offshore oil well supplies and equipment																				●	●		●				
Petrochemicals																									●		
Petroleum products											●																
Steel/steel products																										●	
Handling supplies and equipment												●															
Fleeting															●												
Marine repair		●				●									●												
Drydocking		●																									
Outfitting		●																									
Repairs to own equipment				●			●	●																			
Mooring:																											
Barges	●																										
Harbor craft/tugs	●				●					●																	
Company-owned equipment			●	●		●																					
Not operated or used													●	●		●	●	●	●			●		●			

A - LEFT BANK, CEDAR BAYOU   B - RIGHT BANK, CEDAR BAYOU   C - LEFT BANK, SAN JACINTO RIVER
D - RIGHT BANK, SAN JACINTO RIVER   E - NORTH SIDE, OLD RIVER   F - SOUTH SIDE OLD RIVER
G - LEFT BANK, HOUSTON SHIP CHANNEL   H - RIGHT BANK, CARPENTERS BAYOU

PURPOSE FOR WHICH USED (Cont.)

LOCATION	G				I		G						I		G		LEFT BANK, GREENS BAYOU								J		
P.W.D. REFERENCE NUMBER	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81
Cargo handling:																											
General cargo:																											
Conventional.........						●																					
Containerized........						●	●																				
Alcohol..............																								●			
Animal fats and oils...													●			●											
Bulk cargo (dry).......					●													●						●			
Bulk cargo (liquid)....																						●					
Cement clinker.........																		●									
Chemicals..............													●			●		●									
Crude oil..............													●	●	●												
Ferroalloys............																									●		
Fertilizer.............											●							●							●		
Fuel oil...............	●	●	●	●																							
Grain..................										●	●							●									
Machinery..............							●																				
Molasses...............											●																
Newsprint..............																									●		
Ores (misc.)...........																		●									
Petrochemicals.........																						●					
Petroleum products.....													●	●	●												
Potash.................																		●									
Rubber (synthetic).....																									●		
Scrap metal............																										●	
Steel/steel products...						●																			●	●	
Marine repairs............																				●							●
Barge cleaning............																				●							
Fleeting..................																				●							
Mooring:																											
Barges.................																					●						
Company-owned equipment																		●									●
Fireboat...............																			●								
Harbor craft/tugs......																	●										
Miscellaneous..........																	●										
Not operated or used......								●	●			●											●				

LOCATION	J								LEFT BANK, HOUSTON SHIP CHANNEL													HUNTING BAYOU			
P.W.D. REFERENCE NUMBER	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106
Cargo handling:																									
General cargo:																									
Conventional.........							●					●													
Containerized........													●	●											
Heavy lift items.....							●					●													
Chemicals..............																●	●		●	●	●				
Coal...................													●												
Coal tar...............																●	●		●						
Coke...................													●	●											
Granite................													●												
Liquefied petroleum gas																						●	●	●	
Oil well drilling platforms............											●														
Petrochemicals.........																●	●		●	●	●				
Petroleum products.....													●			●	●		●	●	●				
Prefabricated buildings		●																							
Steel/steel products...			●	●	●								●	●											
Steel structures (fabricated)............											●														
Bunkering (vessels).......																				●	●				
Bunkering (supplying barges)................																●	●		●	●	●				
Fueling...................																									●
Marine repair.............	●					●																			
Outfitting................						●																			
Gas freeing...............	●																								
Vessel/barge cleaning.....	●																								
Mooring:																									
Company-owned equipment	●																								
Steel fabricated structures...........			●	●	●																				
Not operated or used......								●	●	●					●			●							

G - LEFT BANK, HOUSTON SHIP CHANNEL I - JACINTOPORT SLIP J - RIGHT BANK, GREENS BAYOU

PURPOSE FOR WHICH USED (Cont.)

LOCATION	K		LEFT BANK, HOUSTON SHIP CHANNEL																	
P.W.D. REFERENCE NUMBER	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126
Cargo handling:																				
General cargo:																				
Conventional.........										●	●									
Containerized........										●	●									
Roll-on roll-off.....										●	●									
Bulk cargo (liquid)....			●	●	●	●	●	●	●											
Cement................																●	●			
Chemicals.............			●	●	●	●	●	●												
Crushed stone..........														●	●					
Ferroalloys............														●						
Grain..................											●	●								
Gypsum rock............													●							
Liquefied petroleum gas	●	●																		
Petrochemicals.........			●	●	●	●	●	●	●											
Petroleum products.....			●	●	●	●	●	●	●											
Oils (vegetable).......			●	●	●	●	●	●	●		●									
Sand...................															●					
Steel/steel products...														●						
Bunkering (vessels).......			●	●	●															
Bunkering (supplying barges)................						●	●	●												
Mooring:																				
Barges.................																	●			
Government equipment...																			●	
Miscellaneous..........																	●			
Not operated or used......																		●		●

LOCATION	LEFT BANK, HOUSTON SHIP CHANNEL																L			
P.W.D. REFERENCE NUMBER	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146
Cargo handling:																				
General cargo:																				
Conventional.........			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●
Containerized........				●		●		●				●	●							
Automobiles............		●																		
Grain..................															●					
Petrochemicals.........																			●	
Petroleum products.....																			●	
Structural steel products.............										●										
Mooring harbor craft/tugs.																			●	
Not operated or used......	●																			

K - HUNTING BAYOU   L - TURNING BASIN

PURPOSE FOR WHICH USED (Cont.)

LOCATION	L	M				RIGHT BANK, BUFFALO BAYOU										N				
P.W.D. REFERENCE NUMBER	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166
Cargo handling:																				
Conventional general cargo	●										●	●					●	●		
Aragonite													●				●			
Asphalt														●						
Bulk cargo (dry)											●	●								
Cement clinker													●							
Chemicals																			●	
Clay													●							
Construction materials and equipment												●								
Drilling mud												●								
Feed additives											●									
Fertilizer			●								●	●								
Diesel fuel					●															
Fuel oil			●																	
Limestone									●											
Molasses																			●	
Oil (vegetable)																	●	●	●	
Salt												●								
Sand/shell									●	●										
Solid treated waste			●																	
Steel/steel products				●							●	●								
Steel structures (fabricated)				●																
Tallow																		●	●	
Repairs to own equipment				●						●										
Mooring:																				
Company-owned equipment				●						●										
Harbor craft/tugs		●													●	●				
Miscellaneous															●	●			●	
Not operated or used						●	●													●
Not used for handling waterborne commerce								●												

LOCATION	N			O		N			HARRISBURG BEND						N					
P.W.D. REFERENCE NUMBER	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186
Cargo handling:																				
General cargo:																				
Conventional		●	●																	
Asphalt																		●		
Alum (liquid)														●						
Bulk cargo (liquid)																				●
Caustic soda	●																			●
Cement															●					
Chemicals																				●
Cotton		●																		
Fertilizer (liquid)	●																			
Liquid wax	●																			
Molasses	●																			●
Oats/rice				●																
Petrochemicals																		●		●
Petroleum products																		●		●
Pig iron				●																
Rice				●															●	
Scrap metal				●																
Sulfuric acid														●						
Sulphur (liquid)														●						
Tallow	●																			
Marine repair					●	●	●	●	●	●										
Drydocking					●			●												
Outfitting/conversion							●		●	●										
Shipbuilding					●		●		●											
Vessel/barge cleaning											●									
Gas freeing											●									
Mooring:																				
Company-owned equipment												●								
Harbor craft/tugs													●							
Miscellaneous													●						●	
Not operated or used																●	●			

L - TURNING BASIN M - LEFT BANK, BUFFALO BAYOU N - RIGHT BANK, HOUSTON SHIP CHANNEL O - BRAYS BAYOU

PURPOSE FOR WHICH USED (Cont.)

LOCATION			N				P				RIGHT BANK, HOUSTON SHIP CHANNEL									
P.W.D. REFERENCE NUMBER	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206
Cargo handling:																				
General cargo:																				
Conventional.........					●															
Containerized........					●															
Caustic soda (spent)...																	●			
Coke..................								●										●		●
Crude oil.............				●							●	●	●						●	
Petrochemicals.........									●	●	●	●	●						●	
Petroleum products.....			●	●							●	●	●	●					●	
Sand/gravel...........						●														
Sludge................															●	●				
Sulphur (liquid).......														●						
Wood pulp.............																	●			
Bunkering (vessels).......				●																
Bunkering (supplying barges)................												●	●							
Loading bunkering barges..											●									
Fleeting.................							●													
Mooring:																				
Barges................						●	●													
Company-owned equipment						●														
Fireboat..............	●	●																		
Miscellaneous..........	●	●					●													

LOCATION		N		Q		RIGHT BANK, HOUSTON SHIP CHANNEL										BOGGY BAYOU BASIN				
P.W.D. REFERENCE NUMBER	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226
Cargo handling:																				
Conventional general cargo................										●	●									
Anhydrous ammonia......					●										●					
Bulk cargo (liquid)....	●	●	●																	
Chemicals..............											●		●					●	●	●
Crude oil..............																				●
Fertilizer (dry).......						●			●											
Fuel oil...............													●							
Petrochemicals.........	●	●	●								●			●						●
Petroleum products.....	●	●	●												●			●	●	●
Phosphate rock.........							●													
Steel/steel products...										●										
Styrene....											●									
Sulfuric acid..........								●												
Sulphur (liquid).......								●												
Bunkering (vessels).......																				●
Marine repair/drydocking..				●																
Fueling..................																	●			
Mooring barges...........																●				
Not operated or used......												●								

N - RIGHT BANK, HOUSTON SHIP CHANNEL P - RIGHT BANK, SIMS BAYOU Q - COTTON PATCH BAYOU

PURPOSE FOR WHICH USED (Cont.)

LOCATION	R	N					S			RIGHT BANK, HOUSTON SHIP CHANNEL										T
P.W.D. REFERENCE NUMBER	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246
Cargo handling:																				
Bulk cargo (liquid)....				●				●	●											
Caustic soda..........				●	●						●									
Chemicals.............	●					●														●
Crude oil.............		●																		
Fuel oil..............		●												●						●
Fuel oil for plant consumption..........																			●	
Grain.................										●										
Petrochemicals........				●	●		●					●	●			●				
Petroleum products.....	●											●	●		●	●				
Sulfuric acid.........							●													
Bunkering (supplying barges...................		●																		
Ferry (vehicular and passenger).............																		●		
Mooring:																				
Excursion vessels......																	●			
Harbor craft/tugs......			●																	
Miscellaneous..........										●							●			

LOCATION	T			RIGHT BANK, BARBOURS CUT									N	BAYPORT CHANNEL							
P.W.D. REFERENCE NUMBER	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267
Cargo handling:																					
General cargo:																					
Containerized........					●	●	●	●	●												
Roll-on roll-off.....									●	●											
Fuel oil.............	●																				
Chemicals............		●																			
Methanol.............	●																				
Natural gas..........				●																	
Petrochemicals.......				●										●	●	●	●	●	●	●	●
Petroleum products.....				●										●	●						
Sulfuric acid/spent sulfuric acid........			●																		
Waste materials........			●																		
Fleeting.................											●										
Mooring:																					
Fireboat...............												●									
Harbor craft/tugs......													●								
Miscellaneous..........											●										

R - BOGGY BAYOU BASIN   N - RIGHT BANK, HOUSTON SHIP CHANNEL   S - TUCKER BAYOU   T - UPPER SAN JACINTO BAY

SUMMARY OF GENERAL CARGO

P.W.D. REF. NO.	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONGSIDE (FEET)	TRANSIT SHEDS		OPEN STORAGE AREA (ACRES)
				NO.	CARGO SPACE (SQ. FT.)	
256(1)	Barbours Cut Marine Contractors, Inc.	215	42	1	198,500	40
61(1)	Care Shipping Terminal, Inc.	750	39	1	40,000	7
157	General Stevedores, Inc.	165+400 +200	10	1	16,000	1.4
158	General Stevedores, Inc.	280+150	10	1	60,000	7.25
93	Greens Bayou Terminal Co., division of Brown & Root, Inc.	700	24-26	-	-	25
88	Hughes, Joe D., Inc., a subsidiary of Brown & Root, Inc.	350+640	15-18	-	-	3
60	Inbesa America, Inc.	632	42	1	60,000	-
116	International Terminal Corp.	680	42	2	136,200	4 15(2)
117	International Terminal Corp.	1,250	38			
191	Manchester Terminal Corp.	1,520	34	1	900,000	21.8
169	New Terminal Warehouse Corp.	830	27	1	45,000	-
	Port of Houston Authority					
128	Public Wharf No. 32	800	38	-	-	18
129	Public Wharves Nos. 30 and 31	1,176	38	1	141,067	5
130	Public Wharf No. 29	600	38	-	-	5.1
131	Public Wharves Nos. 27 and 28	1,200	38	1	144,270	-
132	Public Wharf No. 26	600	38	-	-	2.2
133	Public Wharves Nos. 24 and 25	1,200	38	1	144,000	2.1
134	Public Wharf No. 23	600	38	-	-	2.2
135	Public Wharves Nos. 21 and 22	1,200	38	1	144,400	3.3

SUMMARY OF GENERAL CARGO (Cont.)

P.W.D. REF. NO.	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONGSIDE (FEET)	TRANSIT SHEDS		OPEN STORAGE AREA (ACRES)
				NO.	CARGO SPACE (SQ. FT.)	
	Port of Houston Authority (Cont.)					
136	Public Wharf No. 20	600	38	-	-	2.9
137	Public Wharves Nos. 18 and 19	1,177	38	1	133,330	8.8
138	Public Wharf No. 17	600	38	-	-	1.7
139	Public Wharf No. 16	603	38	-	-	1.8
140	Public Wharf No. 15	480	34	1	44,410	-
141	Public Wharf No. 14	480	34	-	-	-
142	Public Wharves Nos. 12 and 13	990	33	1	86,828	-
143	Public Wharf No. 11	530	33	1	41,115	-
144	Public Wharf No. 10	700	33	1	48,460	-
146	Public Wharf No. 9	501	34	1	50,700	9
147	Public Wharf No. 8	624	38	-	-	10
163	Public Wharf No. 2	519	33	1	38,360	-
164	Public Wharf No. 1	603	34	1	28,335	-
168	Public Wharves Nos. 41 through 48	3,428	33	1	731,080	1.7
254	Barbours Cut Terminal No. 2	1,000	42	-	-	12(3)
255	Barbours Cut Terminal No. 1	1,000	42	-	-	20(3)
252(1)	Sealand Service, Inc.	1,000	42	1	45,000	(3)
253	Sealand Service, Inc.	1,000	42	-	-	(3)

(1) Container freight station.
(2) Storage capacity for 1,300 stacked containers.
(3) Terminal has storage capacity for 1,225 containers on chassis including 169 positions for refrigerated cargo.

Corps of Engineers Port Code No.	40382 Dock Code No. 088	40382 Dock Code No. 088	40382 Dock Code No. 089
REFERENCE NUMBER ON MAP NO. 1	1	2	3
NAME	Chevron U.S.A., Oak Point Terminal Cedar Bayou.	USX Texas Works, Cedar Bayou Barge Dock.	Warrior & Gulf Navigation Co., Cedar Bayou Dock.
LOCATION ON WATERFRONT	Baytown, left bank at entrance of Cedar Bayou. Atlantic Road	Baytown, left bank Cedar Bayou, approximately 2 miles above entrance. FM 1405 South	Baytown, left bank, Cedar Bayou, 3 miles above entrance. 4111 FM 1405
OWNED BY	Chevron U.S.A., Inc.	USX Corp.	Warrior & Gulf Navigation Co.
OPERATED BY	Jim Boles	USX Corp.	Warrior & Gulf Navigation Co.
PURPOSE FOR WHICH USED	Occasional shipment of crude oil.	Shipment of steel plate and pipe, receipt of scrap metal.	Receipt and shipment of steel products and occasionally dry bulk materials by barge.
TYPE OF CONSTRUCTION	Steel pile, timber-decked, offshore wharf with 20- by 2-foot timber approach; 2 timber breasting dolphins in line with face.	Steel sheet pile bulkhead with solid fill; timber fender system.	Steel sheet pile bulkhead with solid fill fronted by timber fender system.
DESCRIPTION	Face	Face	Face
Dimensions (Feet)	38	900	230
Depth Alongside at MLT Do.	10	11	12
Breasting Distance Do.	120	900	230
Total Berthing Space Do.	120	900	230
Width of Apron Do.	-	-	-
Height of Deck at MLT Do.	6	10	9
Load Capacity (Lbs per Sq. Ft.)	-	-	-
Lighted or Unlighted	Unlighted.	Lighted.	Lighted.
MECHANICAL HANDLING FACILITIES	None.	One 35-ton, electric, traveling, revolving, full-portal, gantry crane with 60-foot outboard reach over one surface railway track.	One 150-ton, diesel, crawler crane, with 90 foot boom.
RAILWAY CONNECTIONS	None.	One surface track on outside of gantry crane at the edge of bulkhead, two surface tracks under gantry crane with additional trackage serving plant in rear.	None.
HIGHWAY CONNECTIONS	Via Tri-City Beach Road, FM 2354, asphalt, 24 feet wide, Via Atlantic Road, shell, 10 feet wide, from Tri-City Beach Road (FM 2354).	Via private road, gravel, 20 feet wide, from FM 1405, asphalt 24 feet wide, opposite USX Main Plant Entrance.	Via private road, shell, 10 feet wide, from FM 1405, asphalt, 24 feet wide.
WATER SUPPLY (Available to Vessels)	None.	None.	None.
ELECTRIC POWER (Available to Vessels)	A.C., 110/440 volts.	None.	A.C., 110 volts.
FIRE PROTECTION (Other than City)	None.	Hand extinguishers and fire truck.	Hand extinguishers and hose.
REMARKS	Two 10-inch pipelines extend to four steel storage tanks in rear, total capacity 40,000 barrel.	-	Five-acre open storage area in rear.

Corps of Engineers Port Code No.	60382 Dock Code No. 163	60382 Dock Code No. 215	60382 Dock Code No. 792
REFERENCE NUMBER ON MAP NO. 1	4	5	6
NAME	Mobay Corp., Baytown Plant Barge Dock.	Lopez Gloria Construction Service, Inc., Cedar Bayou Mooring.	Houston Shell and Concrete, Baytown Ready Mix, Cedar Bayou Wharf.
LOCATION ON WATERFRONT	Baytown, left bank Cedar Bayou, approximately 0.6 mile below State Highway 146 Bridge. 8500 West Bay Road	Baytown, left bank Cedar Bayou, approximately 200 feet below State Highway 146 Bridge. Shell Dock Rd. and State Hwy. 146	Baytown, right bank, Cedar Bayou, approximately 0.5 mile below State Highway 146 bridge. 4000 State Highway 146
OWNED BY	Mobay Corp., a Bayer USA, Inc. Company.	Rudy Gloria	Houston Shell and Concrete Co.
OPERATED BY	Mobay Corp.	Lopez Gloria Construction Service Inc.	Houston Shell and Concrete Co.
PURPOSE FOR WHICH USED	Receipt of chemicals and petrochemicals including aniline, toluene and 50% caustic soda.	Receipt of sand and gravel.	Receipt of sand and gravel.
TYPE OF CONSTRUCTION	Steel sheet pile bulkhead with concrete-surfaced solid fill along upper end of slip perpendicular to the Bayou.	Natural bank.	Steel sheet pile bulkhead with concrete-surfaced solid fill.

DESCRIPTION	Face	Outer end	Inner end	Face			Face		
Dimensions (Feet)	400	150	150	350			425		
Depth Alongside at MLT Do.	8	-	-	10			12		
Breasting Distance Do.	800 w/dlph	-	-	350			425		
Total Berthing Space Do.	900			350			425		
Width of Apron Do.	-			-			20		
Height of Deck at MLT Do.	12			-			6		
Load Capacity (Lbs per Sq. Ft.)	800			-			-		
Lighted or Unlighted	Lighted.			Unlighted			Lighted.		

MECHANICAL HANDLING FACILITIES	Two 2-ton, electric, mast-and-boom derrick each with 20-foot horizontal boom for handling hose.	One 40-ton diesel crawler crane with 80-foot boom equipped with 3-cubic yard bucket.	One electric, traveling, revolving, full-portal gantry crane with 95-foot boom and equipped with 3-cubic yard bucket for unloading material into a 15-cubic yard hopper, served by a 30-inch electric belt conveyor, extending to five storage bins in rear.
RAILWAY CONNECTIONS	Trackage serving plant in rear connects with Southern Pacific Transportation Co.	None.	None
HIGHWAY CONNECTIONS	Via private road, gravel, 18 feet wide, from West Bay Road, asphalt, 24 feet wide.	Via Shell Dock Road, asphalt, 18 feet wide, from State Highway 146, asphalt, 48 feet wide.	Via private drive, gravel, 18 feet wide, from State Highway 146, asphalt, 48 feet wide.
WATER SUPPLY (Available to Vessels)	None.	None.	None.
ELECTRIC POWER (Available to Vessels)	A.C., 110 volts.	None.	A.C., 110 volts
FIRE PROTECTION (Other than City)	Hand extinguishers, pumps, and hose.	Hand extinguishers.	Hand extinguishers
REMARKS	Three 6-inch pipelines extend from 38 steel storage tanks, total capacity 1,000,000 gallons.	-	Open storage area in rear of wharf for approximately 2,400 tons of material.

Corps of Engineers Port Code No.	60352 Dock Code No. 215	60370 Dock Code No. 131	60370 Dock Code No. 131
REFERENCE NUMBER ON MAP NO. 1	7	8	9
NAME	Arrow Cement Co., Cedar Bayou Wharf.	Exxon Company, U.S.A., Baytown Refinery Pier No. 1.	Stauffer Chemical Co. Baytown Plant Wharf.
LOCATION ON WATERFRONT	Baytown, right bank, Cedar Bayou, approximately 2 miles below State Highway 146 Bridge. 1200 Kilgore Road	Baytown, left bank, Houston Ship Channel, approximately 1.3 miles above Baytown-La Porte Tunnel.	Baytown, left bank Houston Ship Channel, Mitchell Bay, approximately 1.4 miles above Baytown-LaPorte Tunnel. 3439 Park Street
OWNED BY	Arrow Cement Co.	Exxon Co., U.S.A.	Stauffer Chemical Co., Division of Rhone Poulenc, Inc.
OPERATED BY	Arrow Cement Co.	Exxon Co., U.S.A.	Stauffer Chemical Co., Division of Rhone Poulenc, Inc.
PURPOSE FOR WHICH USED	Receipt of sand and gravel.	Receipt and shipment of petroleum products and petrochemicals; bunkering vessels using wharf.	Receipt of sulfuric acid; shipment of spent sulfuric acid.
TYPE OF CONSTRUCTION	Permanently-moored steel barge with walkway approach.	Concrete and steel pile, concrete-decked, offshore wharf with one 80- by 20-foot and two 90- by 5-foot approaches, fronted by timber fender system with steel helical springs and rubber fender system; timber mooring dolphins in line with face.	Timber pile, timber-decked, offshore wharf with 65- by 3-foot approach; timber breasting dolphins in line with face.

DESCRIPTION	Face	Lower side		Face	Sides		Face	Sides	
Dimensions (Feet)	100	30		820	40, each		20	8, each	
Depth Alongside at MLT Do.	10	-		40	-		30	-	
Breasting Distance Do.	100	-		1,350 w/dph	-		100w/dlph	-	
Total Berthing Space Do.	100	-		1,350	-		100		
Width of Apron Do.	-			Open			Open		
Height of Deck at MLT Do.	7			9			5		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Two 1 1/2-cubic yard diesel front-end loaders.	Five electric-hydraulic cranes each with 70-foot telescopic booms.	One 4-inch, swivel-jointed, loading arm.
RAILWAY CONNECTIONS	None.	Plant trackage serving oil refinery in rear connects with tracks of Southern Pacific Transportation Co. and Union Pacific Railroads.	Plant trackage serving oil refinery in rear connects with tracks of Southern Pacific Transportation Co. and Union Pacific Railroads.
HIGHWAY CONNECTIONS	Via private drive, gravel, 18 feet wide, from Kilgore Road, asphalt, 24 feet wide, from State Highway 146.	Via San Jacinto St., asphalt, 25 feet wide, from Bayway Drive, asphalt, 30 feet wide.	Via San Jacinto St., asphalt, 25 feet wide, from Bayway Drive, asphalt, 30 feet wide.
WATER SUPPLY (Available to Vessels)	None.	Through one 4-inch line with 2-inch hose connections.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Hand extinguishers.	Plant fire department, foam system, sprinkler system, steam and water lines, chemical carts, hand extinguishers, and security patrol.	Plant fire department, foam system, sprinkler system, steam and water lines, chemical carts, hand extinguishers, and security patrol.
REMARKS	Approximately 3 acres of open storage area in rear with capacity for 6,000 tons of material.	Five 16-, two 12-, one 10-, nineteen 8-, twenty-one 6-, two 2-, and one 1 1/2-inch, pipelines extend from wharf to 308 steel storage tanks, total capacity approximately 11,500,000 barrels as follows: Petroleum products - 254 tanks, total capacity 10,450,000 barrels; crude oil - 22 tanks, total capacity 6,340,000 barrels; petrochemicals - 25 tanks, total capacity 42,000,000 gallons; and chemicals -7 tanks, total capacity 2,100,000 barrels. One 12-inch ballast line extends from wharf to one ballast storage tank.	Two 6-inch pipelines extend from wharf to 2 sulfuric acid storage tanks in rear, total capacity 3,200 tons.

Corps of Engineers Port Code No.	60370 Dock Code No. 131	60370 Dock Code No. 131	60370 Dock Code No. 131
REFERENCE NUMBER ON MAP NO. 1	10	11	12
NAME	Exxon Co., U.S.A., Baytown Refinery Pier No. 2.	Exxon Co., U.S.A., Baytown Refinery Pier No. 5.	Exxon Co., U.S.A., Baytown Refinery Pier No. 8.
LOCATION ON WATERFRONT	Baytown, left bank Houston Ship Channel, Mitchell Bay, approximately 1.5 miles above Baytown-LaPorte Tunnel.	Baytown, left bank Houston Ship Channel, Mitchell Bay, approximately 1.5 miles above Baytown-LaPorte Tunnel.	Baytown, left bank Houston Ship Channel, Mitchell Bay, approximately 1.5 miles above Baytown-LaPorte Tunnel.
OWNED BY	Exxon Co., U.S.A.	Exxon Co., U.S.A.	Exxon Co., U.S.A.
OPERATED BY	Exxon Co., U.S.A.	Exxon Co., U.S.A.	Exxon Co., U.S.A.
PURPOSE FOR WHICH USED	Receipt of crude oil; receipt and shipment of petroleum products, chemicals and petrochemicals; bunkering vessels using wharf.	Receipt and shipment of petroleum products; bunkering vessels using wharf.	Supplying bunkering barges.
TYPE OF CONSTRUCTION	Concrete pile, concrete-decked offshore pier with 190- by 10-foot approach extending from south side of Berth No. 8 (Ref. No. 12); sides of pier fronted by timber fender system with steel helical springs. A 250-foot steel walkway extends outward from face to a 60-foot diameter, steel sheet pile, cellular turning dolphin with solid fill.	Concrete-encased, steel pile, concrete decked, offshore pier with 210- by 10 foot approach extending from outer end of Berth No. 8 (Ref. No. 12). A 260 foot catwalk extends outward from face to a 60-foot diameter, steel sheet pile, cellular turning dolphin with solid fill.	Timber pile, concrete-decked, offshore wharf with row of timber breasting dolphins fronting face and north side of approach and to Pier Nos. 2 and 5 (Ref. Nos. 10 and 11). Rubber cushioned timber and steel fender system along face.

DESCRIPTION	Face	East side	West side	Face	East side	West side	Face	Sides	
Dimensions (Feet)	55	432	432	55	400	400	42	21, each	
Depth Alongside at MLT Do.	-	40	40	-	40	40	16	-	
Breasting Distance Do.	-	810 w/dlph	810w/dlph	-	820 w/dlph	820 w/dlph	300 w/dlph	-	
Total Berthing Space Do.	-	810	810	-	820	820	300	-	
Width of Apron Do.	-			Open.			Open.		

Height of Deck at MLT Do.	9	14	12
Load Capacity (Lbs per Sq. Ft.)	-	-	-
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
MECHANICAL HANDLING FACILITIES	Eight 12- and two 8-inch diameter, swivel-jointed, loading arms mounted on elevated steel structure; and four 1/2-ton capacity, pneumatic derricks, each with 30-foot boom mounted on elevated steel tower, used for handling two 8-, two 6-, and two 4-inch hoses.	Four 12-inch diameter, swivel-jointed loading arms mounted on elevated steel structure; elevated steel frame towers on wharf are each equipped with two 1/2-ton, pneumatic derricks, each with 30-foot boom for handling four 8-inch hoses. One elevated steel frame tower 76-feet above deck is equipped with six 1/2-ton, pneumatic derricks, each with 40-foot boom, used for handling four 12-inch hoses.	One 6-inch diameter, swivel-jointed, loading arm, used for handling one 6-inch flexible hose.
RAILWAY CONNECTIONS	Plant trackage serving oil refinery in rear connects with tracks of Southern Pacific Transportation Co. and Union Pacific Railroads.	Plant trackage serving oil refinery in rear connects with tracks of Southern Pacific Transportation Co. and Union Pacific Railroad.	Plant trackage serving oil refinery in rear connects with tracks of Southern Pacific Transportation Co. and Union Pacific Railroad.
HIGHWAY CONNECTIONS	Via San Jacinto St., asphalt, 25 feet wide, from Bayway Drive, asphalt, 30 feet wide.	Via Baytown Avenue, private road, asphalt, 25 feet wide, from Bayway Drive, asphalt, 30 feet wide.	Via Baytown Avenue, private road, asphalt, 25 feet wide, from Bayway Drive, asphalt, 30 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 4-inch line with 2- and 2 1/2-inch hose connections.	Through one 4-inch line with 2- and 2 1/2-inch hose connections.	Through one 4-inch line with 2- and 2 1/2-inch hose connections.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Plant fire department, foam system, sprinkler system, steam and water lines, chemical carts, hand extinguishers, and security patrol.	Plant fire department, foam system, steam and water lines, chemical carts, hand extinguishers, and security patrol.	Plant fire department, foam system, steam and water lines, chemical carts, hand extinguishers, and security patrol.
REMARKS	One 36-, three 24-, one 20-, five 16-, six 12-, sixteen 8-, one 6-, and one 2-inch pipelines extend from pier to storage tanks described under Ref. No. 8. One 12-inch pipeline on pier connects with one 24-inch ballast line on shore in rear.	One 36-, two 20-, two 16-, two 12-, one 10-, one 8-, and one 6-inch pipelines extend from pier to storage tanks described in Ref. No. 8. One 12-inch ballast line on pier joins with ballast line on shore in rear. Piers 2 and 5 (Ref. Nos. 10 and 11) are parallel and approximately 420 feet apart.	Sixteen 6-inch pipelines extend to storage tanks described under Ref. No. 8.

Corps of Engineers Port Code No.	60370 Dock Code No. 131	60370 Dock Code No. 131	60370 Dock Code No. 131
REFERENCE NUMBER ON MAP NO. 1	13	14	15
NAME	Exxon Co., U.S.A., Baytown Refinery Pier No. 4.	Exxon Co., U.S.A., Baytown Refinery Pier No. 6.	Exxon Co., U.S.A., Baytown Refinery Pier No. 7.
LOCATION ON WATERFRONT	Baytown, left bank Houston Ship Channel, Mitchell Bay, approximately 1.5 miles above Baytown-LaPorte Tunnel.	Baytown, left bank Houston Ship Channel, Mitchell Bay, approximately 1.6 miles above Baytown-LaPorte Tunnel.	Baytown, left bank Houston Ship Channel, Mitchell Bay, approximately 1.6 miles above Baytown-LaPorte Tunnel.
OWNED BY	Exxon Co., U.S.A.	Exxon Co., U.S.A.	Exxon Co., U.S.A.
OPERATED BY	Exxon Co., U.S.A.	Exxon Co., U.S.A.	Exxon Co., U.S.A.
PURPOSE FOR WHICH USED	Receipt and shipment of petroleum products and petrochemicals.	Shipment of hot coker feed (asphalt) and sulphur by barge.	Receipt and shipment of petroleum products; shipment of fuel oil by barge.
TYPE OF CONSTRUCTION	Timber pile, timber and concrete-decked, offshore wharf with 300-by 10-foot timber approach; timber and steel mooring dolphins in line along each side of wharf.	Timber pile, concrete-decked, offshore wharf with 268- by 7-foot timber pile, timber-decked approach; steel and timber pile mooring dolphins in line with south face.	Steel pile, steel-supported concrete-decked offshore wharf with 420-by 8-foot approach; 5 steel and 4 timber breasting dolphins along each side of approach in line with each side of wharf; steel pile, concrete-capped platform dolphin at outer end.

DESCRIPTION	Face	South side	North side	South face	East side	West side	Outer end	East side	West side
Dimensions (Feet)	30	60	55	50	70	70	34	76	76
Depth Alongside at MLT Do.	-	16	16	16	-	-	16	16	16
Breasting Distance Do.	-	240w/dlph	240w/dlph	-	250w/dlph	400w/dlph	-	607w/dlph	607w/dlph
Total Berthing Space Do.	-	240	240	-	250	400	-	607	607
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	6			8			13.5		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Two steel frame towers (one located on each side of pier), each equipped with 5 swivel-jointed, loading arms; inner portion of each loading arm is 6-inch steel pipe and outer portion is 6-inch, flexible hose connection.	Two 6-inch, steel, steam-traced, swivel-jointed, loading arms. One 1 1/2-ton electric, hydraulic crane with 70-foot boom, used for handling one 6-inch hose.	Four 10-inch, swivel-jointed loading arms - two on each side.
RAILWAY CONNECTIONS	Plant trackage serving oil refinery in rear connects with tracks of Southern Pacific Transportation Co. and Union Pacific Railroad.	Plant trackage serving oil refinery in rear connects with tracks of Southern Pacific Transportation Co. and Union Pacific Railroad.	Plant trackage serving oil refinery in rear connects with tracks of Southern Pacific Transportation Co. and Union Pacific Railroad.
HIGHWAY CONNECTIONS	Via Baytown Avenue, private road, asphalt, 25 feet wide, from Bayway Drive, asphalt, 30 feet wide.	Via Baytown Avenue, private road, asphalt, 25 feet wide, from Bayway Drive, asphalt, 30 feet wide.	Via Baytown Avenue, private road, asphalt, 25 feet wide, from Bayway Drive, asphalt, 30 feet wide.
WATER SUPPLY (Available to Vessels)	None.	Through one 3/4-inch line.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Plant fire department, foam system, steam and water lines, chemical carts, hand extinguishers, and security patrol.	Plant fire department, foam system, steam and water lines, chemical carts, hand extinguishers, and security patrol.	Plant fire department, foam system, steam and water lines, chemical carts, hand extinguishers, and security patrol.
REMARKS	Twenty one 8-, and one 4-inch pipelines extend from pier to storage tanks described under Ref. No. 8.	Two 8-, and one 10-inch pipelines extend to wharf from 2 steel asphalt (hot coker feed) storage tanks, total capacity 136,000 barrels, and one 9,000 ton-steel sulphur storage tank. One 4-, one 3-, and one 2-inch utility pipelines for water, compressed air, and steam also serve wharf.	One 20- and two 12-inch pipelines extend from tankage described under Ref. No. 8.

Corps of Engineers Port Code No.	60370 Dock Code No. 131	60370 Dock Code No. 191	60370 Dock Code No. 193
REFERENCE NUMBER ON MAP NO. 1	16	17 Map No. 2	18 Map No. 2
NAME	Exxon Co., U.S.A., Tug Boat Dock	Houston Marine Services Terminal.	Lynchburg Ferry Wharf.
LOCATION ON WATERFRONT	Baytown, left bank Houston Ship Channel, Mitchell Bay, approximately 1.6 miles above Baytown-LaPorte Tunnel.	Lynchburg, left bank Houston Ship Channel, northerly shore of Burnett Bay, approximately 0.5 mile below mouth of San Jacinto River. 850 South Lynchburg Road	Lynchburg, left bank Houston Ship Channel, below mouth of San Jacinto River. 1001 S. Lynchburg Road
OWNED BY	Exxon Co., U.S.A.	Houston Marine Services, Inc.	Harris County Commissioners Court.
OPERATED BY	Exxon Co., U.S.A.	Houston Marine Services, Inc.	Harris County Commissioners Court.
PURPOSE FOR WHICH USED	Mooring and fueling tug boats.	Mooring company-owned fueling barges and receipt of diesel fuel.	Mooring and fueling ferryboats.
TYPE OF CONSTRUCTION	Steel sheet pile bulkhead with concrete-surfaced, solid fill; with connecting steel pile, steel decked, 100-by 6-foot pier.	Steel sheet pile retaining walls with concrete-surfaced solid fill, forming wharf, pier, and slip.	Timber pile, timber decked wharf, with breasting dolphins in line with sides.

DESCRIPTION	Face			Wharf	Pier	Slip	Face	Lower side	Upper side
Dimensions (Feet)	250			539	250x55	75x85	14	30	30
Depth Alongside at MLT Do.	16			12	12	12	8	8	8
Breasting Distance Do.	250			539	500	75	-	40 w/dlph	40 w/dlph
Total Berthing Space Do.	250			539	500	150	-	40	40
Width of Apron Do.	Open.			Open.	Open.	30	Open.		
Height of Deck at MLT Do.	6			6	6	6	6		
Load Capacity (Lbs per Sq. Ft.)	-			-	-	-	-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	None.	None.	None.
RAILWAY CONNECTIONS	Plant trackage serving oil refinery in rear connects with tracks of Southern Pacific Transportation Co. and Union Pacific Railroad.	None.	None.
HIGHWAY CONNECTIONS	Via Baytown Avenue, asphalt, 25 feet wide, from Bayway Drive, asphalt, 30 feet wide.	Via South Lynchburg Road, asphalt, 25 feet wide.	Via South Lynchburg Road, asphalt, 25 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 2 1/2-inch line.	None.	None.
ELECTRIC POWER (Available to Vessels)	A.C., 440 volts.	None.	A.C., 110 volts.
FIRE PROTECTION (Other than City)	Plant fire department, foam system, steam and water lines, chemical carts, hand extinguishers, and security patrol.	Hand extinguishers and pumps.	Pumps, hose, and hand extinguishers.
REMARKS	One 3-inch pipeline for fuel disposal extends to one [illegible],000-barrel steel storage tank.	One 8-inch pipeline extends from wharf to two 25,000- and three 1,200-barrel steel storage tanks at rear.	Ferryboats moored here are supplied with fuel from highway tank trucks or by hose line from small storage tank at rear.

Corps of Engineers Port Code No.	60370 Dock Code No. 193	60370 Dock Code No. 196	60370 Dock Code No. 196
REFERENCE NUMBER ON MAP NO. 2	19	20	21
NAME	Lynchburg Ferry Slip.	Channel Shipyard Co. Wharves.	Highport Industries Dock.
LOCATION ON WATERFRONT	Lynchburg, left bank San Jacinto River at mouth. 1001 S. Lynchburg Road	Lynchburg, left bank, San Jacinto River, approximately 1,400 feet above mouth. 999 S. Lynchburg Road	Highlands, left bank, San Jacinto River, approximately 800 feet above Interstate Highway 10 Bridge. 1900 South Main Street
OWNED BY	Harris County Commissioners Court.	Channel Shipyard Co., Inc.	Highport Industries, Inc.
OPERATED BY	Harris County Commissioners Court.	Channel Shipyard Co., Inc.	S.M.S. Division of Highport Industries, Inc.
PURPOSE FOR WHICH USED	Landing for passenger and vehicular ferries.	Mooring barges and small vessels for repair and conversion; mooring barges for tank cleaning and gas freeing; mooring floating drydock.	Receipt of petrochemicals.
TYPE OF CONSTRUCTION	Timber ferry rack with adjustable transfer bridge.	One 195-foot, grounded, steel barge with 20- by 8-foot approach and two 175-foot, grounded, steel barges, with 100 -foot approach to upper barge; barges are spaced approximately 230 feet apart.	Timber bulkhead with solid fill perpendicular with timber pile, timber-decked pier extension and three timber breasting dolphins in line with face.
DESCRIPTION	Ferry slip	Face	Face
Dimensions (Feet)	150 by 40	195+175+175	90
Depth Alongside at MLT Do.	8	10-15	6-8
Breasting Distance Do.	150	195+175+175	90
Total Berthing Space Do.	150	195+175+175	150
Width of Apron Do.	-	35 & 25	Open.
Height of Deck at MLT Do.	-	2-6	6
Load Capacity (Lbs per Sq. Ft.)	-	-	-
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
MECHANICAL HANDLING FACILITIES	Overhead frame for adjusting level of transfer bridge.	One 1-ton, hand operated, mast-and-boom derrick on upper barge.	One 1-ton, hand-operated mast with 15-foot boom for handling hose.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via South Lynchburg Road, asphalt, 25 feet wide.	Via driveway, part asphalt and part gravel, 18 feet wide, from South Lynchburg Road, asphalt, 25 feet wide.	Via driveway, shell, 10 feet wide, from Clear Lake and Main Streets, each asphalt, 20 feet wide.
WATER SUPPLY (Available to Vessels)	None.	None.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Pumps, hose, and hand extinguishers.	Hand extinguishers.	Hand extinguishers and pumps.
REMARKS	Ferries operate to San Jacinto State Park Ferry Slip on opposite side of Houston Ship Channel (Ref. No. 244).	One 4-inch pipeline extends from upper barge to slop tanks in rear. One 1,000-ton, steel, floating drydock is moored between upper barges.	One 8-inch pipeline extends from wharf to one 772,000-gallon steel storage tank in rear.

Corps of Engineers Port Code No.	60370 Dock Code No. 196	60370 Dock Code No. 196	60370 Dock Code No. 196
REFERENCE NUMBER ON MAP NO. 2	22	23	24
NAME	Anahuac Towing & Shell Co. Dock.	Arco-Lyondell Petro Chemical Co. Barge Dock No. 1.	Lesco Trucking Co. Dock.
LOCATION ON WATERFRONT	Highlands, left bank San Jacinto River, approximately 0.6 mile above Interstate Highway 10 Bridge. 1310 S. Main Street	Channelview, right bank of San Jacinto (Bear Lake), approximately one mile above Union Pacific Railroad Bridge. 18222 Wallisville Road	Channelview, right bank of San Jacinto River (Bear Lake), above Union Pacific Railroad Bridge. 728 Shields Street
OWNED BY	W. E. Gilbert	Arco-Lyondell Petro Chemical Co.	Lesco Trucking Co., Inc.
OPERATED BY	Anahuac Towing & Shell Co.	Arco-Lyondell Petro Chemical Co.	Lesco Trucking Co., Inc.
PURPOSE FOR WHICH USED	Receipt of sand and caliche by barge.	Receipt and shipment of petrochemicals and feed stocks.	Receipt and shipment of steel casings, pipe, and structural steel; handling construction materials and equipment.
TYPE OF CONSTRUCTION	Irregularly-shaped timber sheet pile bulkhead with solid fill.	Concrete pile, concrete-decked offshore wharf with 500- by 12-foot approach; 4 steel breasting dolphins in line with face.	Timber-capped, steel sheet pile bulkhead with solid fill; fronted by timber fender system.

DESCRIPTION	Face			Face	Upper side	Lower side	Face		
Dimensions (Feet)	600			50	20	20	500		
Depth Alongside at MLT Do.	10			14	14	14	12		
Breasting Distance Do.	600			375 w/dlph	-	-	500		
Total Berthing Space Do.	600			375	-	-	500		
Width of Apron Do.	Open.			-	-	-	Open.		
Height of Deck at MLT Do.	4-6			15	14	14	6		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Two diesel, crawler cranes, each with 65-foot boom and 2-cubic yard bucket; one receiving hopper for loading trucks. Front-end loader used for moving material from stockpile to trucks.	Two 4-ton hydraulic cranes, each with 50-foot boom for handling hose.	One 50-, one 25-, and two 20-ton, diesel crawler cranes with 80-, 70-, and 60-foot booms, respectively, and one 20-ton, diesel, mobile forklift truck.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via driveway, shell, 10 feet wide, from Main Street, asphalt, 25 feet wide.	Via private road, asphalt, 16 feet wide, from Wallisville Road, asphalt, 22 feet wide, from Sheldon Road, asphalt, 40 feet wide.	Via Shields Street, from River Road, each asphalt, 30 feet wide, from Magnolia Avenue and Interstate Highway 10.
WATER SUPPLY (Available to Vessels)	None.	Through 4-inch line.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Hand extinguishers.	Hand extinguishers, hydrants, monitors, chemical carts, foam system and security patrol.	Hydrant and hand extinguishers.
REMARKS	Approximately two acres of open storage area at rear with capacity for 8,000 tons of material.	One 12-, two 10-, two 8-, and one 6-inch pipelines extend from wharf to 7 steel storage tanks, total capacity 26,342,064 gallons.	Approximately 90 acres of open storage area located at rear.

Corps of Engineers Port Code No.	60370 Dock Code No. 196			60370 Dock Code No. 196			60370 Dock Code No. 196	
REFERENCE NUMBER ON MAP NO. 2	25			26			27	
NAME	Houston International Terminal Wharf.			Southwestern Barge Fleet Service, Inc.			Western Towing Co., Barge Mooring.	
LOCATION ON WATERFRONT	Channelview, right bank San Jacinto River, approximately 0.5 mile above Interstate Highway 10 Bridge. 18001 Interstate Highway 10 East			Channelview, right bank, San Jacinto River, below Interstate Highway 10 Bridge. 18310 Market Street Road			Channelview, right bank, San Jacinto River, 0.4 mile below Interstate Highway 10 Bridge. 18350 Market Street Road	
OWNED BY	Captain Jack Roberts.			Southwestern Barge Fleet Service, Inc.			Western Towing Co.	
OPERATED BY	OME Corp.			Southwestern Barge Fleet Service, Inc.			Western Towing Co.	
PURPOSE FOR WHICH USED	Receipt of reclaimed oil.			Mooring barges, towboats, tugs, and other types of small vessels for repair; mooring barges for gas-freeing and fleeting; mooring floating drydocks.			Mooring towboats and barges.	
TYPE OF CONSTRUCTION	Rectangular slip: south side: steel sheet pile bulkhead with solid fill; east and west sides: row of steel pile breasting dolphins.			Timber bulkhead with solid fill and natural bank with grounded and/or permanently-moored barges and vessels, and shore moorings.			Row of grounded barges and natural bank.	
DESCRIPTION	South side	East side	West side	Face			Face	
Dimensions (Feet)	250	500	500	1,700			1,000 + 400	
Depth Alongside at MLT Do.	12	12-30	12-30	10-22			8-12	
Breasting Distance Do.	250	500	500	1,700 approx			1,000 (See Remarks.)	
Total Berthing Space Do.	250	500	500	1,700			1,000	
Width of Apron Do.	Open	-	Open	Open			Open	
Height of Deck at MLT Do.	8			4-6			6	
Load Capacity (Lbs per Sq. Ft.)	-			-			-	
Lighted or Unlighted	Lighted.			Lighted.			Partly lighted.	
TRANSIT SHEDS Number and Description	One - concrete block walls; concrete floor.			None.			None.	
Length and Width (Feet)	740 x 120							
Height Inside Do.	22							
Floor Area for Cargo (Sq. Ft.)	80,000							
Load Capacity (Lbs. per Sq. Ft.)	Unlimited							
Cargo Doors	West side and north side: two 18 by 12 each.							
MECHANICAL HANDLING FACILITIES	Two 10-ton overhead bridge cranes in transit shed.			One 20-, one 10-, and one 6-ton tower cranes and one 15-ton mobile hoist.			None.	
RAILWAY CONNECTIONS	None.			None.			None.	
HIGHWAY CONNECTIONS	Via Monmouth Street from Interstate Highway 10 service road.			Via road, shell, 10 feet wide, from Market Street, asphalt, 20 feet wide, and shell, 10-15 feet wide.			Via road, unpaved, 20 feet wide, from Market Street, asphalt, 20 feet wide, and shell, 10-15 feet wide.	
WATER SUPPLY (Available to Vessels)	Through 4-inch line.			Through one 2-inch line.			None.	
ELECTRIC POWER (Available to Vessels)	A.C., 110/220/440 volts.			A.C., 110/220 volts.			None.	
FIRE PROTECTION (Other than City)	Hand extinguishers, hydrants, and hose.			Foam system, water line, hose, hand extinguishers, and security patrol.			Pump and security patrol.	
REMARKS	Approximately 40 acres of open storage area in rear. Twelve steel storage tanks, total capacity 30,000 barrels. Formerly used for handling steel.			One 1,300-ton steel, floating drydock is moored at outer ends of 2 parallel timber catwalks extending from shore on lower side of bulkhead.			Additional berthing space is available at natural bank along point of land east of and adjacent to lower end of row of barges.	

Corps of Engineers Port Code No.	60370 Dock Code No. 196	60370 Dock Code No. 196	60370 Dock Code No. 196
REFERENCE NUMBER ON MAP NO. 2	28	29	30
NAME	Musgrove Towing Service Dock.	Glendale Boat Works Wharf.	Inter-Bay Towing Co. Mooring.
LOCATION ON WATERFRONT	Channelview, east side of cove off north side of Old River at junction with San Jacinto River. 18302 Market Street Road	Channelview, inner end and east side of cove off north side of Old River at junction with San Jacinto River. 18300 Market Street Road	Channelview, north side of Old River, approximately 0.57 mile west of junction with San Jacinto River. 17512 Market Street Road
OWNED BY	Musgrove Towing Service, Inc.	Glendale Boat Works, Inc.	Inter-Bay Towing Co., Inc.
OPERATED BY	Musgrove Towing Service, Inc.	Glendale Boat Works, Inc.	Inter-Bay Towing Co., Inc.
PURPOSE FOR WHICH USED	Mooring towboats and barges.	Mooring small vessels, and barges, for outfitting and repair; mooring floating drydocks.	Mooring company-owned towboats.
TYPE OF CONSTRUCTION	Part natural bank, part grounded steel barges.	Steel sheet pile bulkhead with solid fill.	Natural bank.
DESCRIPTION	Face	Face	Bank
Dimensions (Feet)	1,000	300	400
Depth Alongside at MLT Do.	4	6	4-7
Breasting Distance Do.	1,000	300	400
Total Berthing Space Do.	1,000	300	400
Width of Apron Do.	Open.	Open.	Open
Height of Deck at MLT Do.	6	4	4
Load Capacity (Lbs per Sq. Ft.)	-	-	-
Lighted or Unlighted	Lighted.	Lighted.	Unlighted.
MECHANICAL HANDLING FACILITIES	None.	One 40-ton, gasoline, crawler crane with 45-foot boom; one 30- and one 15-ton hydraulic cranes.	None.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via driveway from Market Street Road, asphalt, 20 feet wide, and Interstate Highway 10.	Via road, shell, 20 feet wide, from Market Street Road, asphalt, 20 feet wide, and Interstate Highway 10.	Via road, shell, 20 feet wide, from Market Street Road, asphalt, 20 feet wide, and Interstate Highway 10.
WATER SUPPLY (Available to Vessels)	None.	Through one 1-inch line.	None.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 110 volts.	None.
FIRE PROTECTION (Other than City)	Pump and security patrol.	Water line, hose, and hand extinguishers.	Pumps, hose, and hand extinguishers.
REMARKS	Approximately 800 feet of additional end-to berthing space is available for barges at natural bank west of wharf.	Fabrication and welding shop located in rear. One 400- and one 600-ton floating drydocks moored at wharf.	-

Corps of Engineers Port Code No.	60370 Dock Code No. 196	60370 Dock Code No. 196	60370 Dock Code No. 196
REFERENCE NUMBER ON MAP NO. 2	31	32	33
NAME	McDonough Marine Service Landing.	Pace Marine Service Mooring.	Continental Dredging Slip.
LOCATION ON WATERFRONT	Channelview, north side of Old River, approximately 0.6 mile west of junction with San Jacinto River. 17450 Market Street Road	Channelview, north side of Old River, approximately 0.8 mile west of junction with San Jacinto River. 17350 Market Street Road	Channelview, north side of Old River, approximately 0.9 mile west of junction with San Jacinto River. 17350 Market Street Road
OWNED BY	Marmac Corp.	Francis Adams.	Continental Dredging, Inc.
OPERATED BY	McDonough Marine Service, Division of Marmac Corp.	Pace Marine Service.	Continental Dredging, Inc.
PURPOSE FOR WHICH USED	Mooring and repairing company-owned floating equipment.	Mooring company-owned towboats.	Mooring company-owned floating equipment for storage and repair.
TYPE OF CONSTRUCTION	Part two 195- and one 110-foot grounded, steel barges and part natural bank.	Natural bank.	Rectangular slip with natural banks.

DESCRIPTION	Face			Bank			Head of slip	East side	West side
Dimensions (Feet)	400+900			300			110	1,000	800
Depth Alongside at MLT Do.	4-7			2-5			10	10	10
Breasting Distance Do.	400+900			300			110	1,000	800
Total Berthing Space Do.	400+900			300			110	1,000	800
Width of Apron Do.	Open			Open.			Open.		
Height of Deck at MLT Do.	4			4			4		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Partly lighted			Unlighted.			Partly lighted.		

MECHANICAL HANDLING FACILITIES	One 8-ton, diesel, crawler crane, with 45-foot boom.	One 15-ton crawler crane with 35 foot boom.	One 65-ton crawler crane with 110-foot boom and four 50-ton crawler cranes each with 80-foot boom.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via driveway, from Market Street Road, asphalt, 20 feet wide, and Interstate Highway 10.	Via driveway, from Market Street Road, asphalt, 20 feet wide, and Interstate Highway 10.	Via driveway, from Market Street Road, asphalt, 20 feet wide, and Interstate Highway 10.
WATER SUPPLY (Available to Vessels)	None.	None.	None.
ELECTRIC POWER (Available to Vessels)	A.C., 220 volts for welding units.	None.	None.
FIRE PROTECTION (Other than City)	Pumps, hose, and hand extinguishers.	Pump and hand extinguishers.	Pump and hand extinguishers.
REMARKS		-	Dredging contractor specializes in construction of submarine pipeline crossings.

Corps of Engineers Port Code No.	60370		Dock Code No. 196	60370		Dock Code No. 196	60370		Dock Code No. 196
REFERENCE NUMBER ON MAP NO. 2	34			35			36		
NAME	Pasadena Towing Service, Mooring.			Old River Fleeting & Repair, Mooring.			Lone Star Falcon Cement Co., Wharf.		
LOCATION ON WATERFRONT	Channelview, south side of Old River, approximately 2,000 feet west of junction with Houston Ship Channel. 16524 De Zavalla Road			Channelview, south side of Old River, approximately 1,500 feet west of junction with Houston Ship Channel. 16524 De Zavalla Road			Channelview, left bank of Houston Ship Channel above junction with Old River. 16530 De Zavalla Road		
OWNED BY	Pasadena Towing Service, Inc.			Old River Fleeting & Repair, Inc.			Lone Star-Falcon Cement Co., Inc.		
OPERATED BY	Pasadena Towing Service, Inc.			Old River Fleeting & Repair, Inc.			Lone Star-Falcon Cement Co., Inc.		
PURPOSE FOR WHICH USED	Mooring and repairing company-owned floating equipment.			Mooring and repairing company-owned floating equipment.			Receipt of bulk cement by ship and shipment by barge.		
TYPE OF CONSTRUCTION	Natural bank.			Natural bank.			Concrete pile, concrete-decked offshore wharf with 300- by 30-foot approach.		
DESCRIPTION	Bank			Bank			Face	Lower end	
Dimensions (Feet)	500			500			600	30	
Depth Alongside at MLT Do.	6			6			41	41	
Breasting Distance Do.	500			500			650	-	
Total Berthing Space Do.	500			500			950	-	
Width of Apron Do.	Open			Open			Open.		
Height of Deck at MLT Do.	4			4			10		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Partly lighted.			Partly lighted.			Lighted.		
MECHANICAL HANDLING FACILITIES	Crawler and hydraulic cranes are available as required.			Crawler and hydraulic cranes are available as required.			Electric, overhead, traveling, gantry crane, supporting three screw auger unloaders served by a 48-inch electric belt conveyor, rate 460 tons per hour, extending to terminal in rear. One 5-inch pneumatic pipeline on wharf for loading barges, rate 65 tons per hour.		
RAILWAY CONNECTIONS	None.			None.			None.		
HIGHWAY CONNECTIONS	Via private road, asphalt, 20 feet wide, from De Zavalla Road, asphalt, 24 feet wide, from Sheldon Road, asphalt, 40 feet wide.			Via private road, asphalt 20 feet wide, from De Zavalla Road, asphalt, 24 feet wide, from Sheldon Road, asphalt, 40 feet wide.			Via driveway, asphalt, 20 feet wide, from De Zavalla Road, asphalt, 24 feet wide, from Sheldon Road, asphalt, 40 feet wide.		
WATER SUPPLY (Available to Vessels)	None.			None.			Through 2-inch line.		
ELECTRIC POWER (Available to Vessels)	None.			None.			A.C., 110/220/480 volts.		
FIRE PROTECTION (Other than City)	Hose, pumps, and hand extinguishers.			Hose, pumps, and hand extinguishers.			Hose, pumps, chemical carts, and hand extinguishers.		
REMARKS	-			-			Ten concrete storage silos at terminal in rear have capacity for 63,000 tons of cement.		

Corps of Engineers Port Code No.	60370 Dock Code No. 202	60370 Dock Code No. 202	60370 Dock Code No. 202
REFERENCE NUMBER ON MAP NO. 2	37	38	39
NAME	National Marine Service, Mooring.	Koch Refining Co., Channelview Terminal Dock.	T. L. James Carpenters Bayou Mooring.
LOCATION ON WATERFRONT	Channelview, left bank of Carpenters Bayou, approximately 1,000 feet above mouth. 16526 De Zavalla Road	Channelview, left bank Carpenters Bayou, approximately 2,500 feet above mouth on old bayou channel. 16514A De Zavalla Road	Channelview, left bank Carpenters Bayou, approximately 0.6 mile above mouth on old bayou channel at junction. 16514 De Zavalla Road
OWNED BY	National Marine Service, Inc.	Koch Refining Co., Inc.	T. L. James, Inc.
OPERATED BY	National Marine Service, Inc.	Koch Refining Co., Inc.	T. L. James, Inc.
PURPOSE FOR WHICH USED	Mooring towboats and barges.	Receipt of petroleum products.	Handling dredge pipelines supplies and equipment.
TYPE OF CONSTRUCTION	Steel sheet pile bulkhead with solid fill, fronted by timber fender system along bayou and natural bank along old bayou channel.	Timber pile, timber-decked, offshore wharf with 50- by 5-foot approach; 2 timber pile breasting dolphins in line with face.	Natural bank.

DESCRIPTION	Bulkhead	Bank		Face	Sides		Bank		
Dimensions (Feet)	1,300	300		45	21, each		600		
Depth Alongside at MLT Do.	15	10-12		8-12	-		9		
Breasting Distance Do.	700	900		145	-		600		
Total Berthing Space Do.	700	900		145	-		600		
Width of Apron Do.	Open.			21			Open.		
Height of Deck at MLT Do.	12	12		12			11		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Unlighted.		

MECHANICAL HANDLING FACILITIES	None.	One 2-ton, hydraulically-operated, swivel-jointed, derrick with 50-foot boom, used for handling two 8-, and one 6-inch hoses.	None.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via private road, shell and gravel 20 feet wide, from private road, asphalt, 20 feet wide, from De Zavalla Road, asphalt, 24 feet wide.	Via driveway, gravel, 20 feet wide, from De Zavalla Road, asphalt, 24 feet wide, from Sheldon Road, asphalt, 40 feet wide.	Via driveway, shell, 20 feet wide, from De Zavalla Road, asphalt, 24 feet wide, from Sheldon Road, asphalt, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through 2-inch pipe.	None.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Hand extinguishers, hose, pumps and hydrant.	Pumps, hose, and hand extinguishers.	Hose and hand extinguishers.
REMARKS	The old bayou channel is used as a slip for mooring barges.	Three 10- and one 8-inch pipelines extend from wharf to 8 steel storage tanks at rear, total capacity 140,000 barrels.	-

Corps of Engineers Port Code No.	60270 Dock Code No. 202	60270 Dock Code No. 202	60270 Dock Code No. 202
REFERENCE NUMBER ON MAP NO. 2	40	41	42
NAME	International Tool and Supply Co. Mooring.	Solar Turbine Slip.	Hollywood Fleeting Service Tug Boat Dock and Slip.
LOCATION ON WATERFRONT	Channelview, left bank, Carpenters Bayou, approximately 0.7 mile above mouth. 16508 De Zavalla Road	Channelview, left bank, Carpenters Bayou, approximately 0.9 mile above mouth. 16504 De Zavalla Road	Channelview, left bank of Carpenters Bayou, approximately 0.1 mile above mouth. 16402 De Zavalla Road
OWNED BY	International Tool and Supply Company, Inc.	Solar Turbine, Division of Caterpillar Tractor Co.	Hollywood Marine, Inc.
OPERATED BY	Not operated.	Not operated.	Hollywood Fleeting Service, Inc.
PURPOSE FOR WHICH USED	Not used.	Not used.	Mooring barges for fleeting and repair.
TYPE OF CONSTRUCTION	Steel sheet pile, bulkhead with concrete-surfaced solid fill, fronted by timber fender system.	Concrete-capped, steel sheet pile bulkhead with solid fill fronted by timber fender system along inner end and lower side of slip.	Steel sheet pile bulkhead with solid fill fronted by timber fender system. One 100-foot, floating, steel barge anchored to bank is used for tug landing. A 350- by 1700-foot slip with natural bank is used for barge mooring.

DESCRIPTION	Face			Inner end of slip	Lower side	Upper side	Bulkhead	Slip	Tug landing
Dimensions (Feet)	150			165	275	155	300	350x1,700	100
Depth Alongside at MLT Do.	12			12	12	13	12	10-12	10-12
Breasting Distance Do.	150			165	278	158	300	1,700	100
Total Berthing Space Do.	150			165	278	158	300	1,700	100
Width of Apron Do.	Open.			Open.			Open.	-	-
Height of Deck at MLT Do.	10			8-10	8-10		8	8	6
Load Capacity (Lbs per Sq. Ft.)	-			-			-	-	-
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	None.	None.	One 50-ton, diesel, crawler crane with 75-foot boom.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via driveway, shell, 20 feet wide, from De Zavalla Road, asphalt, 24 feet wide, from Sheldon Road, asphalt, 40 feet wide.	Via driveway, shell, 20 feet wide, from De Zavalla Road, asphalt, 24 feet wide, from Sheldon Road, asphalt, 40 feet wide.	Via driveway, shell, 25 feet wide, from De Zavalla Road, asphalt, 24 feet wide, from Sheldon Road, asphalt, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through 2-inch line.	None.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Hand extinguishers and hose.	None.	Hose, pumps, chemical carts, and hand extinguishers.
REMARKS	Facility formerly was used for handling offshore oil well structures fabricated in building at rear.	Facility at rear formerly fabricated heavy structures for offshore oil industry.	-

Corps of Engineers Port Code No.	60370 Dock Code No. 202	60370 Dock Code No. 202	60370 Dock Code No. 202
REFERENCE NUMBER ON MAP NO. 2	43	44	45
NAME	LaPorte Corp. Mooring.	Modular Design Research Slip.	Sedco Forex Slip.
LOCATION ON WATERFRONT	Channelview, left bank of Carpenters Bayou, approximately one mile above mouth. 16239 De Zavalla Road	Channelview, left bank of Carpenters Bayou, approximately 1.1 miles above mouth. 16300 De Zavalla Road	Channelview, left bank of Carpenters Bayou, approximately 1.2 mile above mouth. 16230 De Zavalla Road
OWNED BY	LaPorte Corp.	Modular Design Research, Inc.	Sedco Forex, Division of Schlumberger Technology Corp.
OPERATED BY	Not operated.	Not operated.	Not operated.
PURPOSE FOR WHICH USED	Not used.	Not used.	Not used.
TYPE OF CONSTRUCTION	Timber crib bulkhead with solid fill.	Steel sheet pile retaining walls with solid fill forming rectangular slip and adjacent wharf.	Rectangular slip with steel sheet pile retaining walls along upper side and inner end.

DESCRIPTION	Face			Slip	Bayou		Inner end of slip	Lower side	Upper side
Dimensions (Feet)	200			900 by 190	270 + 70		280	400	400
Depth Alongside at MLT Do.	12			11	7		12	12	12
Breasting Distance Do.	200			1,160	270 + 70		200	400	400
Total Berthing Space Do.	200			1,160	270 + 70		200	400	400
Width of Apron Do.	Open.			Open.	Open.		Open	-	-
Height of Deck at MLT Do.	6			7	7		10	10	10
Load Capacity (Lbs per Sq. Ft.)	-			-	-		-	-	-
Lighted or Unlighted	Unlighted.			Unlighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	None.	Three fixed bridges span slip, each equipped with 500-ton, electric traveling hoist, combined lifting capacity 1,500 tons; additional cranes are available as required.	None.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via driveway, shell, 25 feet wide, from De Zavalla Road, asphalt, 24 feet wide, from Sheldon Road, asphalt, 40 feet wide.	Via driveway, shell, 25 feet wide, from De Zavalla Road, asphalt, 24 feet wide, from Sheldon Road, asphalt, 40 feet wide.	Via driveway, asphalt, 20 feet wide, from De Zavalla Road, asphalt, 24 feet wide, from Sheldon Road, asphalt, 40 feet wide.
WATER SUPPLY (Available to Vessels)	None.	Through [illegible]-inch line.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	None.	None.	Hand extinguishers and security patrol.
REMARKS	-	Facility was formerly used for fabricating structures for offshore oil well industry.	-

Corps of Engineers Port Code No.	60370 Dock Code No. 202	60370 Dock Code No. 202	60370 Dock Code No. 202
REFERENCE NUMBER ON MAP NO. 2	46	47	48
NAME	Arrow Trucking Co. Bulkhead.	Patterson Truck Line Wharf and Slip.	Delta Engineering Corp. Dock.
LOCATION ON WATERFRONT	Channelview, left bank of Carpenters Bayou, approximately 1.2 miles above mouth. 438 S. Sheldon Road	Channelview, left bank of Carpenters Bayou, approximately 1.3 miles above mouth. 839 South Sheldon Road	Channelview, right bank Carpenters Bayou, approximately 1.3 miles above mouth. 16415 1/2 Jacintoport Boulevard
OWNED BY	Arrow Trucking Co.	Patterson Truck Line, Inc.	Delta Engineering Corp.
OPERATED BY	Not operated.	Patterson Truck Line, Inc.	Delta Engineering Corp.
PURPOSE FOR WHICH USED	Not used.	Handling steel pipe and other offshore oil well supplies.	Shipment of offshore production packages for generators and compressors for oil well drilling platforms.
TYPE OF CONSTRUCTION	Concrete-capped, steel sheet pile bulkhead with solid fill, fronted by timber fender system.	Steel sheet pile bulkhead with solid fill fronted by timber fender system continuing on upper side at right angle to form lower side of a dredged rectangular slip.	Steel sheet pile bulkhead with solid fill, fronted by timber fender system.

DESCRIPTION	Face			Face	Sides of slip	Inner end of slip	Face		
Dimensions (Feet)	180			140	487	240	115		
Depth Alongside at MLT Do.	10			12	10-12	8-10	12		
Breasting Distance Do.	180			140	487	200	115		
Total Berthing Space Do.	180			140	487	200	115		
Width of Apron Do.	Open.			Open	-	-	Open.		
Height of Deck at MLT Do.	15			8	8	8	6		
Load Capacity (Lbs per Sq. Ft.)	-			-	-	-	-		
Lighted or Unlighted	Lighted.			Unlighted.			Unlighted.		

MECHANICAL HANDLING FACILITIES	None.	None.	None.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via driveway, asphalt, 20 feet wide, from Sheldon Road, asphalt, 40 feet wide.	Via driveway, asphalt, 20 feet wide, from Sheldon Road, concrete, 40 feet wide.	Via driveway, shell, 20 feet wide, from Jacintoport Boulevard, asphalt, 32 feet wide.
WATER SUPPLY (Available to Vessels)	None.	None.	Through 2-inch line.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Hand extinguishers and security patrol.	None.	Hand extinguishers, hose, and security patrol.
REMARKS	-	Fifteen acres of open storage area at rear is used for pipeline storage.	-

Corps of Engineers Port Code No.	60370 Dock Code No. 202	60370 Dock Code No. 202	60370 Dock Code No. 202
REFERENCE NUMBER ON MAP NO. 2	49	50	51
NAME	Porta-Kamp Manufacturing Co. Dock.	Powell Industries Inc., Offshore Division Wharf.	Coflexip & Services Wharf.
LOCATION ON WATERFRONT	Channelview, right bank Carpenters Bayou, approximately 1.1 miles above mouth. 16503 Jacintoport Boulevard	Channelview, right bank, Carpenters Bayou, approximately one mile above mouth. 16535 Jacintoport Boulevard	Channelview, right bank, Carpenters Bayou, approximately 0.4 mile above mouth. 16661 Jacintoport Boulevard
OWNED BY	Porta-Kamp Manufacturing Co. Dock	Powell Industries, Inc.	Coflexip & Services, Inc.
OPERATED BY	Not operated.	Powell Industries, Inc.	Not operated.
PURPOSE FOR WHICH USED	Not used.	Shipment of control modules for offshore oil well drilling platforms.	Not used.
TYPE OF CONSTRUCTION	Steel sheet pile bulkhead with solid fill.	Steel sheet pile bulkhead with solid fill, fronted by timber fender system.	Concrete-capped, steel sheet pile bulkhead with solid fill; fronted by timber fender system.

DESCRIPTION	Face			Face			Face	Upper side	Lower side
Dimensions (Feet)	300			360			120	10	10
Depth Alongside at MLT Do.	12			10			12	-	-
Breasting Distance Do.	300			360			120	-	-
Total Berthing Space Do.	300			360			120	-	-
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	8			5			8		
Load Capacity (Lbs per Sq. Ft.)	-						-		
Lighted or Unlighted	Lignted.			Lighted.			Unlighted.		

MECHANICAL HANDLING FACILITIES	None.	One 65ton crawler crane with 110foot boom, additional cranes are available as required.	None.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via driveway, shell, 20 feet wide, from Jacintoport Boulevard, asphalt, 32 feet wide.	Via driveway, shell, 20 feet wide, from Jacintoport Boulevard,asphalt, 32 feet wide.	Via driveway, shell, 20 feet wide, from Jacintoport Boulevard, asphalt, 32 feet wide.
WATER SUPPLY (Available to Vessels)	None.	None.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Hydrants and security patrol.	Hydrant, hose, hand extinguishers, and security patrol.	None.
REMARKS	Facility was formerly used for shipment of fabricated structures for offshore oil well industry.		Facility was formerly used for shipment of fabricated structures for the offshore oil well industry.

Corps of Engineers Port Code No.	60370 Dock Code No. 202			60370 Dock Code No. 210			60370 Dock Code No. 210		
REFERENCE NUMBER ON MAP NO. 2	52			53			54		
NAME	J. Haltermann Dock.			Mosher Steel Co. Barge Slip and Craneway.			Houston Fuel Oil Terminal Co., Barge Dock No. 4.		
LOCATION ON WATERFRONT	Channelview, right bank, Carpenters Bayou, approximately 400 feet above mouth. 16717 Jacintoport Boulevard			Channelview, left bank of Houston Ship Channel, approximately 0.2 mile above entrance to Carpenters Bayou. 16730 Jacintoport Boulevard			Channelview, left bank of Houston Ship Channel below Jacintoport Slip. 16642 Jacintoport Boulevard		
OWNED BY	J. Haltermann, Ltd.			Trinity Industries Inc.			Houston Fuel Oil Terminal Co., Inc.		
OPERATED BY	J. Haltermann, Ltd.			Mosher Steel Co.			Houston Fuel Oil Terminal Co., Inc.		
PURPOSE FOR WHICH USED	Receipt and shipment of petrochemicals by barge.			Receipt of structural steel, pipe, and coiled plate.			Receipt and shipment of No. 2 and No. 6 fuel oil by tanker.		
TYPE OF CONSTRUCTION	Concrete pile and concrete-decked offshore wharf with 80- by 12-foot approach, six concrete breasting dolphins in line with face.			Slip formed by closely driven, 30-inch diameter, concrete piles fronted by steel sheet pile bulkhead to elevation 6 feet above MLT; concrete-surfaced solid-filled apron.			Concrete pile, concrete-decked offshore wharf with 40- by 14-foot approach; 6 steel breasting dolphins in line with face.		
DESCRIPTION	Face	Sides		Inner end of slip	West side	East side	Face	Sides	
Dimensions (Feet)	46	20		80	300	150+150	50	40	
Depth Alongside at MLT Do.	12	-		11-14	11-14	11-14	12	-	
Breasting Distance Do.	500 w/dlph	-		80	300	300	500	-	
Total Berthing Space Do.	500	-		80(See Rmrk)	300	300	500	-	
Width of Apron Do.	Open.			Open & cover			Open.		
Height of Deck at MLT Do.	16			14	14	14	15		
Load Capacity (Lbs per Sq. Ft.)	-			-	-	-	-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		
MECHANICAL HANDLING FACILITIES	Two 4-ton hydraulic, pedestal cranes, each with 10-foot boom.			One 250- and one 150-ton, electric, overhead, traveling, bridge cranes; travel 125 feet over inner portion of slip; one 30-ton, diesel, crawler crane with 70-foot boom and one 12 1/2-ton, gasoline, mobile crane with 40-foot retractable boom; used in yard and plant in rear.			Two 7 1/2-ton hydraulic cranes for handling hose.		
RAILWAY CONNECTIONS	One surface track serves plant in rear; connects with Port Terminal Railroad.			One surface track extends into shop building in rear; connects with Port Terminal Railroad.			Two surface tracks serving carloading rack at terminal in rear connect with Missouri Pacific Railroad.		
HIGHWAY CONNECTIONS	Via plant road, asphalt, various widths, from Jacintoport Boulevard, asphalt, 32 feet wide.			Via driveway, shell, from Jacintoport Boulevard, asphalt, 32 feet wide.			Via terminal road, unpaved, various widths, from Jacintoport Boulevard, asphalt, 32 feet wide.		
WATER SUPPLY (Available to Vessels)	None.			None.			None.		
ELECTRIC POWER (Available to Vessels)	A.C., 110 volts.			A.C., 110/220/440 volts in plant in rear.			None.		
FIRE PROTECTION (Other than City)	Pumps and hand extinguishers.			Hand extinguishers.			6-inch fire line, hose, and hand extinguishers.		
REMARKS	Two 8-inch pipelines extend from wharf to 23 steel storage tanks in rear, total capacity 5,317,200 gallons. Petrochemical processing plant located in rear.			Inner 150 feet of slip is 80 feet wide and outer 150 feet is 180 feet wide. Barges are unloaded in inner 150-foot section of slip by overhead cranes. Company is engaged in steel warehousing and distribution.			One 14-, two 10-, and one 8-inch pipelines extend from wharf to 18 steel storage tanks at terminal in rear, total capacity 2,520,000 barrels.		

Corps of Engineers Port Code No.	60370 Dock Code No. 210	60370 Dock Code No. 210	60370 Dock Code No. 210
REFERENCE NUMBER ON MAP NO. 2	55	56	57
NAME	Houston Fuel Oil Terminal Co., Ship Dock No. 1.	Houston Fuel Oil Terminal Co., Barge Dock No. 3.	Houston Fuel Oil Terminal Co., Barge Dock No. 2.
LOCATION ON WATERFRONT	Channelview, left bank of Houston Ship Channel, below Jacintoport Slip. 16642 Jacintoport Boulevard	Channelview, left bank of Houston Ship Channel below Jacintoport Slip. 16642 Jacintoport Boulevard	Channelview, left bank of Houston Ship Channel below Jacintoport Slip. 16642 Jacintoport Boulevard
OWNED BY	Houston Fuel Oil Terminal Co., Inc.	Houston Fuel Oil Terminal Co., Inc.	Houston Fuel Oil Terminal Co., Inc.
OPERATED BY	Houston Fuel Oil Terminal Co., Inc.	Houston Fuel Oil Terminal Co., Inc.	Houston Fuel Oil Terminal Co., Inc.
PURPOSE FOR WHICH USED	Receipt and shipment of No. 2 and No. 6 fuel oil by tanker.	Receipt and shipment of No. 2 and No. 6 fuel oil by tanker.	Receipt and shipment of No. 2 and No. 6 fuel oil by tanker.
TYPE OF CONSTRUCTION	Steel pile, concrete-decked offshore wharf with 300- by 14-foot concrete pile, concrete-decked approach; 2 steel breasting dolphins in line with face, connected by catwalks.	Steel pile, concrete-decked offshore platform with 150-foot approach extending from approach to Ref. No. 55, 2 parallel rows of 3 steel breasting dolphins extend off face to provide for barge berths at each side.	Steel pile, concrete-decked offshore platform with 150-foot approach extending from approach to Ref. No. 56, 2 parallel rows of 3 steel breasting dolphins extend off face to provide for barge berths at each side.

DESCRIPTION		Face	Sides		Face	Outer side	Inner side	Face	Outer side	Inner side
Dimensions	(Feet)	60	60, each		50	40	40	50	40	40
Depth Alongside at MLT	Do.	40	-		12	12	12	12	12	12
Breasting Distance	Do.	250 w/dlph	-		-	165 w/dlph	165 w/dlph	-	165 w/dlph	165 w/dlph
Total Berthing Space	Do.	900 w/dlph	-		-	165	165	-	165	165
Width of Apron	Do.	Open.			Open.	-	-	Open.	-	-
Height of Deck at MLT	Do.	15			15	15	15	15	15	15
Load Capacity	(Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted		Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One 7 1/2-ton hydraulic crane for handling hose and three 12-inch, swivel-jointed loading arms.	Two 7 1/2-ton hydraulic cranes for handling hose.	Two 7 1/2-ton hydraulic cranes for handling hose.
RAILWAY CONNECTIONS	Two surface tracks serving carloading rack at terminal in rear connect with Union Pacific Railroad.	Two surface tracks serving carloading rack at terminal in rear connect with Union Pacific Railroad.	Two surface tracks serving carloading rack at terminal in rear connect with Union Pacific Railroad.
HIGHWAY CONNECTIONS	Via terminal road, unpaved, various widths, from Jacintoport Boulevard, asphalt, 32 feet wide.	Via terminal road, unpaved, various widths, from Jacintoport Boulevard, asphalt, 32 feet wide.	Via terminal road, unpaved, various widths, from Jacintoport Boulevard, asphalt, 32 feet wide.
WATER SUPPLY (Available to Vessels)	Through 2-inch line.	None.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	6-inch fire line, hose, and hand extinguishers.	6-inch fire line, hose, and hand extinguishers.	6-inch fire line, hose, and hand extinguishers.
REMARKS	One 24-, one 12-, and three 8-inch pipelines extend from wharf to storage tanks described under Ref. No. 54.	Three 8-inch pipelines extend from wharf to tankage described under Ref. No. 54.	Three 8-inch pipelines extend from wharf to tankage described under Ref. No. 54.

Corps of Engineers Port Code No.	60370 Dock Code No. 210	60370 Dock Code No. 221	60370 Dock Code No. 221
REFERENCE NUMBER ON MAP NO. 2	58	59	60
NAME	Houston Fuel Oil Terminal Co., Barge Dock No. 1.	Port of Houston, Automated Bagged Goods Handling Facility Ship Dock.	Inbesa America Ship Dock.
LOCATION ON WATERFRONT	Channelview, left bank of Houston Ship Channel below Jacintoport Slip. 16642 Jacintoport Boulevard	Galena Park, north side of Jacintoport Slip. 1606 Clinton Drive	Galena Park, south side, inner end of Jacintoport Slip. 16335 Peninsula Boulevard
OWNED BY	Houston Fuel Oil Terminal Co., Inc.	Port of Houston Authority.	Inbesa America, Inc.
OPERATED BY	Houston Fuel Oil Terminal Co., Inc.	Houston Transmodal Owning Co.	Inbesa America, Inc.
PURPOSE FOR WHICH USED	Receipt and shipment of No. 2 and No. 6 fuel oil by tanker.	Receipt and shipment of packaged goods.	Receipt of steel products; receipt and shipment of containerized and general cargo.
TYPE OF CONSTRUCTION	Concrete pile, concrete-decked offshore wharf with 40- by 14-foot approach; 6 steel breasting dolphins in line with face.	Marginal wharf: Concrete deck supported by concrete pillars on concrete subdeck on timber piles; fronted by vertical concrete wall; concrete railroad trestle at each end supported by square concrete piles; 3 timber breasting dolphins in line with face at each end.	Concrete pile, concrete-decked wharf fronting steel sheet pile bulkhead with solid fill.

DESCRIPTION	Face	Upper side	Lower side	Face			Face	Upper side	Lower side
Dimensions (Feet)	50	40	40	1,500			632	58	58
Depth Alongside at MLT Do.	12	-	-	32			42	-	-
Breasting Distance Do.	500 w/dlph	-	-	2,050 w/dlph			632	-	-
Total Berthing Space Do.	500	-	-	2,050			632	-	-
Width of Apron Do.	Open.			Open.			58	-	-

Height of Deck at MLT Do.	15	14	14
Load Capacity (Lbs per Sq. Ft.)	-	800	-
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
TRANSIT SHEDS Number and Description	None.	Two brick, upper wall supported on 5-foot high concrete lower wall; concrete floor.	One steel frame, metal- covered; concrete floor. Warehouse
Length and Width (Feet)		222 by 50, e	216 by 350
Height Inside Do.		12	20
Floor Area for Cargo (Sq. Ft.)		7,400 each.	60,000, net.
Load Capacity (Lbs. per Sq. Ft.)		500	500
Cargo Doors		Ship side: Three, 16 by 10; and two, 16 by 14. Rear: Three, 16 by 10; and two, 16 by 14.	Open face.
MECHANICAL HANDLING FACILITIES	Two 7 1/2-ton hydraulic cranes for handling hose, and three 12-inch, swivel-jointed loading arms.	One 30-ton, diesel, mobile, straddle carrier; three 20-, two 15-, and two 12-ton, diesel, fork lift trucks; one 12-, four 6-, and five 3-ton, gasoline, fork lift trucks.	Two 100-ton, electric , traveling, full-portal gantry cranes on apron. Four 10-and one 20-ton electric bridge cranes inside warehouse.
RAILWAY CONNECTIONS	Two surface tracks serving carloading rack at terminal in rear connect with Union Pacific Railroad.	Two surface tracks on apron; two tracks serve rear of transit sheds; and one track extends along rear of wharf; connect with Port Terminal Railroad.	One surface track along full length of apron connects with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via terminal road, unpaved, various widths, from Jacintoport Boulevard, asphalt, 32 feet wide.	Via private road, concrete, 30 feet wide, from Jacintoport Boulevard, asphalt, 32 feet wide.	Via road, asphalt, 20 feet wide, from Peninsula Boulevard, asphalt and concrete, 32 feet wide.
WATER SUPPLY (Available to Vessels)	Through 2-inch line.	Through 6-inch lines with 2 1/2-inch hose connections.	Through 8-inch line.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 110/220 volts.	None.
FIRE PROTECTION (Other than City)	6-inch fire line, hose, and hand extinguishers.	Pumps, hydrants, hose, hand extinguishers, and security patrol.	Two 6-inch fire monitors.
REMARKS	One 14-, two 10-, and one 8-inch pipelines extend from wharf to tankage described under Ref. No. 54.	A two-story, brick, 80- by 40-foot, office building is located on upper end of wharf. Concrete-paved, open area is located between and at rear of transit sheds and a concrete platform at rear of sheds and open area. Note: Site work at Omniport began in Feb. 1988 for the automated cargo-handling terminal. Facility to be completed in early 1990.	Operator is engaged in steel warehousing and distribution.

Corps of Engineers Port Code No.	60370 Dock Code No. 221			60370 Dock Code No. 221			60370 Dock Code No. 231		
REFERENCE NUMBER ON MAP NO. 2	61			62			63		
NAME	Care Shipping Terminal, Inc., Ship Dock.			Fuller Co., Barge Slip.			Dundee Cement Co. Houston Terminal Dock.		
LOCATION ON WATERFRONT	Galena Park, left bank of Houston Ship Channel, approximately 0.5 mile above entrance to Jacintoport Slip. 16800 Peninsula Boulevard			Galena Park, left bank of Houston Ship Channel, approximately 0.5 mile above entrance to Jacintoport Slip. 16600 Peninsula Boulevard			Galena Park, left bank of Houston Ship Channel, approximately 0.7 mile above entrance to Jacintoport Slip. 16430 Peninsula Boulevard		
OWNED BY	Care Shipping Terminal, Inc.			Fuller Co.			Dundee Cement Co.		
OPERATED BY	Care Shipping Terminal, Inc.			Not operated.			Not operated.		
PURPOSE FOR WHICH USED	Receipt and shipment of containerized general cargo and machinery.			Not used.			Not used.		
TYPE OF CONSTRUCTION	Concrete pile, concrete-decked bulkhead with solid fill, fronted by timber fender system, 4 timber breasting dolphins in line with face.			Covered barge slip: Concrete-capped, steel sheet pile bulkhead with solid fill; 85-foot wingwall at each side of entrance with protective dolphins.			Natural bank with 4 steel pipe and H-beam pile dolphins.		
DESCRIPTION	Face			Head of slip	Lower side	Upper side	Face of bank		
Dimensions (Feet)	500			95	142	142	175		
Depth Alongside at MLT Do.	39-42			16	16	16	16		
Breasting Distance Do.	750 w/dlph			95	-	-	175		
Total Berthing Space Do.	750			95	-	-	175		
Width of Apron Do.	Open.			-			Open.		
Height of Deck at MLT Do.	15			15			5		
Load Capacity (Lbs per Sq. Ft.)	1500			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted		
TRANSIT SHEDS Number and Description	One - steel frame, metal-covered; concrete floor. Warehouse			None.			None.		
Length and Width (Feet)	500 by 85								
Height Inside Do.	60								
Floor Area for Cargo (Sq. Ft.)	40,000								
Load Capacity (Lbs. per Sq. Ft.)	-								
Cargo Doors	Ship side: Two, 18 by 20; and three, 25 by 30.								
MECHANICAL HANDLING FACILITIES	One 300-ton, diesel, crawler crane with 130-foot boom; two 50-ton, electric overhead bridge cranes located inside warehouse; three mobile container handlers; and one 16-ton, and one 2-ton, gasoline, forklift trucks.			Two 250-ton, electric, overhead, bridge cranes travel length of assembly building and over slip.			Two 2-ton, hand-operated, chain hoists mounted on steel pipe mast and horizontal I-beam for handling flexible hose. Wharf equipped with vacuum and pressurized system for continuous unloading, rate 150 tons per hour, via air-slide system from barge.		
RAILWAY CONNECTIONS	Two surface tracks along full length of apron connect with Port Terminal Railroad.			Two surface tracks, one serving plant in rear and one extending into inner end of assembly building, connect with Port Terminal Railroad. Railroad			Two surface tracks in rear connect with Port Terminal Railroad.Railroad		
HIGHWAY CONNECTIONS	Via road, asphalt, 20 feet wide, from Peninsula Boulevard, asphalt and concrete, 32 feet wide.			Via road, asphalt, 32 feet wide, from Peninsula Boulevard, asphalt and concrete, 32 feet wide.			Via driveway, shell and gravel, 20-30 feet wide, from Peninsula Boulevard, asphalt and concrete, 32 feet wide.		
WATER SUPPLY (Available to Vessels)	Through 2-inch line.			Through one 3-inch line with 1 1/2-inch hose connection.			Through one 6-inch line with 1 1/2-inch hose connection.		
ELECTRIC POWER (Available to Vessels)	A.C., 110/220/440 volts.			A.C., 110/480 volts.			None.		
FIRE PROTECTION (Other than City)	Pumps, hydrants, hose, hand extinguishers, and security patrol.			Pumps, hydrants, hose, hand extinguishers, and security patrol.			None.		
REMARKS	Seven acres of improved open storage area for container marshalling in rear.			Facility was formerly used for receipt of steel and shipment of fabricated structures.			Two 12-inch pneumatic pipelines extending from wharf to three storage tanks in rear, total capacity 3,760 tons, were not in use at time of survey.		

Corps of Engineers Port Code No.	60370		Dock Code No. 232	60370		Dock Code No. 232	60370		Dock Code No. 242
REFERENCE NUMBER ON MAP NO. 2	64			65			66		
NAME	Cargill Houston Grain Elevator Dock.			Cargo Carriers, Houston Grain Elevator Dock.			Wisco Terminal Wharf.		
LOCATION ON WATERFRONT	Jacintoport, left bank of Houston Ship Channel, approximately 1.0 mile above entrance to Jacintoport Slip. 16150 Peninsula Boulevard			Jacintoport, left bank of Houston Ship Channel, approximately 1.0 mile above entrance to Jacintoport Slip. 16150 Peninsula Boulevard			Jacintoport, left bank of Houston Ship Channel, approximately 1.1 mile above entrance to Jacintoport Slip. 15902 Peninsula Boulevard		
OWNED BY	Cargill, Inc.			Cargo Carriers, Inc., subsidiary of Cargill, Inc.			West India Shipping Co., Inc.		
OPERATED BY	Cargill, Inc.			Cargo Carriers, Inc., and Cargill, Inc., Commodity Marketing Division.			Not operated.		
PURPOSE FOR WHICH USED	Shipment of grain.			Receipt of grain, fertilizer, and molasses; shipment of bagged fertilizer.			Not used.		
TYPE OF CONSTRUCTION	Steel pile, concrete-decked pier; fronted by timber fender system.			Steel pipe pile, concrete-decked, offshore wharf with 90- by 15-foot approach extending to upper portion; 2 timber breasting dolphins at upper side.			Steel sheet pile bulkhead with crushed stone surfaced solid fill and one 60- by 50-foot, reinforced concrete crane platform; upper side forms lower side of a 250-foot wide rectangular slip; bulkheads fronted by timber fender system.		
DESCRIPTION	Face	Inner side	Outer side	Face	Sides	Rear of face	Face	Upper side	
Dimensions (Feet)	39	780	780	300	30, each.	200	500	660	
Depth Alongside at MLT Do.	44-46	44-46	44-46	35	-	15	22	22	
Breasting Distance Do.	-	750	750	300	-	200	500	660	
Total Berthing Space Do.	-	750	750	300	-	200	500	660	
Width of Apron Do.	Open.			Open.			Open.	Open.	
Height of Deck at MLT Do.	15			15			6	6	
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted			Lighted		
MECHANICAL HANDLING FACILITIES	Six vessel-loading spouts on each side of grain gallery; gallery is equipped with 54-inch wide, electric belt conveyor and extends along entire length of pier from transfer tower at inner end and grain elevator headhouse, loading rate to vessels 70,000 bushels per hour.			One 10-ton, fixed, electric, revolving crane with 40-foot boom and 4 1/2-cubic yard bucket, unloads into a receiving hopper on wharf. Served by a 30-inch inclined, electric belt conveyor extending to storage building in rear, rate 250 tons per hour.			None.		
RAILWAY CONNECTIONS	One surface track serving car dumper and one serving undertrack pit join 8-track storage yard in rear of elevator; connect with Port Terminal Railroad.			Two surface tracks serve plant in rear; connect with Port Terminal Railroad.			One 450-foot surface track extends along rear of face of wharf joins additional trackage serving terminal in rear; connects with Port Terminal Railroad.		
HIGHWAY CONNECTIONS	Via driveway, asphalt, 30 feet wide, from Peninsula Boulevard, asphalt and concrete, 32 feet wide.			Via driveway, asphalt, 30 feet wide, from Peninsula Blvd., asphalt and concrete, 32 feet wide.			Via private road, gravel, from Peninsula Boulevard, concrete, 32 feet wide.		
WATER SUPPLY (Available to Vessels)	Through one 6-inch line with 1 1/2-inch hose connection.			Through 6-inch line with 1 1/2-inch hose connection.			Through line with 3- and 2 1/2-inch hose connections.		
ELECTRIC POWER (Available to Vessels)	A.C., 110/440 volts.			A.C., 110/440 volts.			A.C., 110/220 volts.		
FIRE PROTECTION (Other than City)	Hydrants, hose, and hand extinguishers.			Hydrant and hand extinguishers.			Hydrants, hose, monitor, and hand extinguishers.		
REMARKS	Grain elevator located north of inner end of pier has capacity for 6,500,000 bushels.			Fertilizer storage building at rear has capacity for 33,500 tons. Grain is unloaded into receiving hopper at upper portion of wharf served by 30-inch electric belt conveyor extending to truckloading spout on shore; trucks deliver grain to truck dumper at grain elevator (Ref. No. 64). Cargill, Inc., Commodity Marketing Division, receives molasses through one 16- to 8-inch pipeline extending from wharf to 2 steel storage tanks in rear, total capacity 6,130,270 gallons.			A 65- by 60-foot combination warehouse and office building is located 400 feet in rear of face of wharf. 4.6 acres of gravel-surfaced, open storage area located in rear.		

Corps of Engineers Port Code No.	60370 Dock Code No. 249	60370 Dock Code No. 249	60370 Dock Code No. 249
REFERENCE NUMBER ON MAP NO. 3	67	68	69
NAME	Oiltanking Ship Dock, Berths Nos. 2 and 3.	Oiltanking Ship Dock, Berth No. 1.	Oiltanking Barge Docks A and B.
LOCATION ON WATERFRONT	Jacintoport, lower side of slip, opposite entrance to Boggy Bayou Basin. 15602 Jacintoport Boulevard	Jacintoport, lower side of slip, opposite entrance to Boggy Bayou Basin. 15602 Jacintoport Boulevard	Jacintoport, left bank of Houston Ship Channel above slip opposite entrance to Boggy Bayou Basin. 15602 Jacintoport Boulevard
OWNED BY	Oiltanking, Inc.	Oiltanking, Inc.	Oiltanking, Inc.
OPERATED BY	Oiltanking, Inc.	Oiltanking, Inc.	Oiltanking, Inc.
PURPOSE FOR WHICH USED	Receipt of crude oil and refined products; shipment of animal fats, oils and chemicals.	Receipt and shipment of crude oil and petroleum products. Receipt of liquefied petroleum gas and aragonite.	Receipt and shipment of crude oil and petroleum products; shipment of aragonite.
TYPE OF CONSTRUCTION	Concrete pile, concrete-decked, offshore wharf with 500- by 10-foot approach; 5 steel and concrete breasting dolphins in line with each face. Stern line monopile and on shore bow line tie off point.	Concrete-decked, offshore wharf with 170- by 20-foot approach; 4 steel and concrete breasting dolphins in line with face.	Fifteen steel pipe pile breasting dolphins connected by a 4-foot wide timber walkway with 40- by 10-foot concrete approach from steel sheet pile bulkhead at rear.

DESCRIPTION	Lower face	Upper face	Ends	Face	Inner end	Outer end	Face		
Dimensions (Feet)	200	200	40	220	40	40	1,050		
Depth Alongside at MLT Do.	42	42	-	42	-	-	15		
Breasting Distance Do.	900	900	-	900	-	-	1,050		
Total Berthing Space Do.	900	900	-	900	-	-	1,050		
Width of Apron Do.	Open.	-	-	None.			Open.		
Height of Deck at MLT Do.	20			20			13		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Two 16-inch, swivel-jointed loading arms.	One 16-inch and two 10-inch swivel-jointed loading arms. Receiving hopper on wharf is served by a 60-inch, electric belt conveyor extending to an open storage area at rear; served by a traveling, double boom stacker, maximum rate 4,000 tons per hour.	Barge loading spout at face is served by a 36-/48-/54-inch, electric belt-conveyor extending from 3 ground-level hoppers at open storage area described under Ref. No. 68; normal rate 1,000- to 1,200 tons per hour.
RAILWAY CONNECTIONS	One surface track serves terminal in rear and connects with Port Terminal Railroad.	One surface track serves terminal in rear and connects with Port Terminal Railroad.	One surface track serves terminal in rear and connects with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via terminal road, asphalt, 20 feet wide, from Jacintoport Blvd.	Via terminal road, asphalt, 20 feet wide, from Jacintoport Blvd.	Via terminal road, asphalt, 20 feet wide, from Jacintoport Blvd.
WATER SUPPLY (Available to Vessels)	Through 3-inch line each berth.	Through 3-inch line each berth.	Through 3-inch line.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Foam system, monitors, hydrants and hand extinguishers.	Foam system, monitors, hydrants and hand extinguishers.	Foam system, monitors, hydrants and hand extinguishers.
REMARKS	Two 24-inch pipelines extend from wharf to 7 crude oil storage tanks, total capacity 1,260,000 barrels. Four 8-inch pipelines extend to 8 petroleum products storage tanks, total capacity 1,350,000 barrels. Two 8-inch pipelines extend to wharf from 6 tallow/vegetable oil storage tanks, total capacity 3,750 tons and six 8-inch pipelines extend from 27 storage tanks for fats, oils, and miscellaneous chemicals, total capacity 18,900,000 gallons.	One 24-inch pipeline extends from wharf to tankage described under Ref. No. 67. Open storage area at rear has capacity for 100,000 tons of aragonite.	One 24-inch pipeline extends from wharf to tankage described under Ref. No. 67.

Corps of Engineers Port Code No.	60370 Dock Code No. 249	60370 Dock Code No. 283	60370 Dock Code No. 283
REFERENCE NUMBER ON MAP NO. 3	70	71	72
NAME	Oiltanking and Stolt-Nielsen Barge Dock C	Port of Houston, Bulk Plant No. 2 Wharf.	Port of Houston, Bulk Materials Handling Plant Wharf.
LOCATION ON WATERFRONT	Jacintoport, left bank of Houston Ship Channel above slip opposite entrance to Boggy Bayou Basin. 15602 Jacintoport Boulevard	Houston, left bank of Greens Bayou, approximately 750 feet above junction with Houston Ship Channel. 3100 Penn City Road	Left bank of Greens Bayou, approximately 750 feet above junction with Houston Ship Channel. 3100 Penn City Road
OWNED BY	Oiltanking, Inc.	Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Oiltanking, Inc., and Stolt-Nielsen, Inc.	Port of Houston Authority.	Port of Houston Authority.
PURPOSE FOR WHICH USED	Receipt and shipment of chemicals, animal fats and oils.	Mooring vessels awaiting berth at adjacent wharf (Ref. No. 72); mooring tugs and barges.	Receipt and shipment of various dry bulk commodities including grain, potash, fertilizer, iron ore, barite, ferrochrome, manganese, lead and zinc ores, bauxite, ammonium sulfate, and cement clinker.
TYPE OF CONSTRUCTION	Steel pile, concrete-decked, offshore wharf with 40- by 40-foot steel and concrete loading platform fronted by 4 steel pipe pile breasting dolphins.	Timber pile, timber-decked, offshore wharf with 87- by 12-foot approach; 5 steel pipe pile mooring dolphins in line with face.	Concrete pillars supporting concrete posts and walls with concrete deck; a 193-by 19-foot, concrete, railroad trestle extends from upper end of wharf in line with face.

DESCRIPTION	70 Face			71 Face	71 Lower side	71 Upper side	72 Face	72 Lower side	
Dimensions (Feet)	40			24	12	12	650	65	
Depth Alongside at MLT Do.	12-15			40	-	-	40	-	
Breasting Distance Do.	500			270	-	-	650	-	
Total Berthing Space Do.	500			270	-	-	650	-	
Width of Apron Do.	Open.			Open.	-	-	Open.		
Height of Deck at MLT Do.	11			15	-	-	20		
Load Capacity (Lbs per Sq. Ft.)	-			-			300		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	None.	None.	Two electric, traveling, full-portal towers on wharf - one for loading and one for unloading, each equipped with hinged-cantilevered boom; towers travel full length of wharf. Loading tower has 87-foot boom with 66-foot outboard reach and gravity loading spout with trimmer, loading rate 1,000 tons per hour. Unloading tower has 114-foot boom with 76-foot outboard reach, equipped with traveling trolley buckets up to 10-ton capacity, and a 100-ton capacity receiving hopper, unloading rate 1,000 tons per hour. Each tower is equipped with 42-inch, electric belt-conveyor extending to a 42-inch, electric, reversible belt-conveyor extending along rear of wharf.
RAILWAY CONNECTIONS	One surface track serves terminal in rear and connects with Port Terminal Railroad.	None.	Two surface tracks in rear, total capacity 72 cars, serve surge loading bin and receiving pits, join with 264-car capacity, 4-track storage yard; connect with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via terminal road, asphalt, 20 feet wide, from Jacintoport Boulevard.	Via plant road, asphalt, 25 feet wide, from Penn City Road, asphalt, 22 feet wide, from Interstate Highway 10.	Via plant road, asphalt, 25 feet wide, from Penn City Road, asphalt, 22 feet wide, from Interstate Highway 10.
WATER SUPPLY (Available to Vessels)	Through 3-inch line.	Through one 4-inch line with 1 1/2-inch hose connections.	Through one 4-inch line with 1 1/2-inch hose connections and meter.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Foam system, monitors, hydrants and hand extinguishers.	Pump, water line, and security patrol.	Fireboat, water line, hose, hand extinguishers, and security patrol.
REMARKS	Two 8-inch pipelines extend to wharf from 6 steel, tallow and vegetable oil storage tanks and six 8-inch pipelines extend from 27 steel storage tanks for fats, oils, and miscellaneous chemicals; tankage is located in rear of Ref. No. 67.	-	The reversible conveyor at rear of wharf is served by two 42-inch electric, belt-conveyors extending from upper end of wharf and a 42-inch, electric belt-conveyor extends from a 22,000-ton capacity storage dome in rear of wharf, owned by Intercontinental Bulk Systems, Inc., to the wharf conveyor, for shipment of ammonium sulfate. Uni Minerals Corp. operates a barite grinding mill with capacity for approximately 30 tons per hour at rear.

Corps of Engineers Port Code No.	60370 Dock Code No. 283	60370 Dock Code No. 283	60370 Dock Code No. 283
REFERENCE NUMBER ON MAP NO. 3	73	74	75
NAME	Port of Houston, Greens Bayou Fireboat Dock.	Greens Bayou Fleeting, Wharf and Fleet Mooring.	Platzer Shipyard Mooring.
LOCATION ON WATERFRONT	Left bank of Greens Bayou, approximately 1,600 feet above junction with Houston Ship Channel. 3100 Penn City Road	Left bank of Greens Bayou, approximately 0.5 mile above junction with Houston Ship Channel. 3000 Penn City Road	Left bank of Greens Bayou, approximately 1.1 miles above junction with Houston Ship Channel. 1900 Haden Road
OWNED BY	Port of Houston Authority.	Port of Houston Authority.	Diamond Shamrock Refining Co.
OPERATED BY	Port of Houston Authority.	Greens Bayou Fleeting.	Platzer Shipyard Inc.
PURPOSE FOR WHICH USED	Mooring fireboat "Captain Farnsworth."	Mooring barges for fleeting, performing minor repairs, and cleaning.	Mooring barges.
TYPE OF CONSTRUCTION	Timber pile, timber-decked, L-shaped offshore wharf with 90- by 6-foot timber approach. A 28- by 6-foot timber walkway extends from upper end of wharf, perpendicular to the face.	Grounded barge and approximately 2,000 feet of natural bank.	Natural bank.

DESCRIPTION	Face	Lower side	Upper side	Wharf	Bank	Natural bank		
Dimensions (Feet)	109	10	10	100 by 26	2,000 approx.	1,350		
Depth Alongside at MLT Do.	15	-	-	1-5	12-15	3-6		
Breasting Distance Do.	92	-	-	100	2,000 approx.	1,350		
Total Berthing Space Do.	92	-	-	100	2,000 approx.	1,350		
Width of Apron Do.	Open.			Open.	-	Open.		
Height of Deck at MLT Do.	10			3-4		-		
Load Capacity (Lbs per Sq. Ft.)	-			-		-		
Lighted or Unlighted	Lighted.			Lighted.		Lighted.		

MECHANICAL HANDLING FACILITIES	None.	None.	None.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via plant road, asphalt, 25 feet wide, from Penn City Road, asphalt, 22 feet wide, from Interstate Highway 10.	Via road, unimproved, 10 feet wide, from Bulk Plant Road, asphalt; 25 feet wide, from Penn City Road, asphalt, 22 feet wide.	Via private road, unpaved, 14 feet wide, from Haden Road, asphalt, 20 feet wide, from State Highway 73 and Interstate Highway 10.
WATER SUPPLY (Available to Vessels)	Through one 1 1/2-inch line.	None.	None.
ELECTRIC POWER (Available to Vessels)	A.C., 110 volts.	None.	None.
FIRE PROTECTION (Other than City)	Fireboat, water line, hose, hand extinguishers, and 24-hour operation.	Hand extinguishers and hose.	None.
REMARKS	One 2 1/2-inch bilge pipeline extends from wharf to one 1,400-gallon storage tank, and one 1 1/2-inch sanitary sewer line serves wharf.	Floating area has capacity for 13 barges up to 2 wide.	Operator uses mooring for barges awaiting berth at their shipyard located on opposite bank of Green Bayou (Ref. Nos. 81 and 82). Floating area has capacity for 6 barges up to 2 wide.

Corps of Engineers Port Code No.	60370 Dock Code No. 283	60370 Dock Code No. 283	60370 Dock Code No. 283
REFERENCE NUMBER ON MAP NO. 3	76	77	78
NAME	The Merichem Co. Dock.	Stauffer Chemical Co. Industrial Chemical Division Dock.	BTL Specialty Resins Corp., Barge Dock.
LOCATION ON WATERFRONT	Left bank of Greens Bayou, approximately 1.5 miles above junction with Houston Ship Channel. 1914 Haden Road	Left bank of Greens Bayou, approximately 1.9 miles above junction with Houston Ship Channel. 1632 Haden Road	Left bank of Greens Bayou, between Port Terminal and Union Pacific Railroad bridges. 1503 Haden Road
OWNED BY	The Merichem Co.	Stauffer Chemical Co., Industrial Chemical Division.	BTL Specialty Resins Corp.
OPERATED BY	The Merichem Co.	Not operated.	BTL Specialty Resins Corp.
PURPOSE FOR WHICH USED	Receipt of liquid refinery waste; shipment of cresylic acid and other petrochemicals.	Not used.	Receipt of methyl alcohol.
TYPE OF CONSTRUCTION	Timber pile, timber-decked, offshore wharf with 16- by 4-foot timber approach extending from timber retaining wall in rear of sloped bank; 9 timber breasting dolphins in line with face of wharf.	Steel sheet pile bulkhead with solid fill, fronted by deteriorated, unusable timber pile, asphalt-surfaced, timber-decked extension; 2 timber breasting dolphins in line with face.	Timber pile, timber-decked, offshore wharf with 48- by 12-foot approach to lower side; 5 timber breasting dolphins in line with face.

DESCRIPTION	Face	Lower side	Upper side	Face	Lower side	Upper side	Face	Lower side	Upper side
Dimensions (Feet)	20	10	10	75	20	20	20	64w/apprch	16
Depth Alongside at MLT Do.	10-12	-	-	18	-	-	12	-	-
Breasting Distance Do.	400	-	-	90 w/dlph	-	-	300 w/dlph	-	-
Total Berthing Space Do.	400	-	-	90	-	-	300	-	-
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	10			14			12		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Unlighted.		

MECHANICAL HANDLING FACILITIES	None.	None.	One 1-ton, hand-operated mast with 15-foot boom for handling hose.
RAILWAY CONNECTIONS	One surface track serving plant in rear connects with Port Terminal Railroad.	Plant trackage in rear connects with Port Terminal Railroad.	Plant trackage in rear connects with Union Pacific Railroad.
HIGHWAY CONNECTIONS	Via private road, shell, 24 feet wide, from Haden Road, asphalt, 20 feet wide, from State Highway 73 and Interstate Highway 10.	Via private road, asphalt, 22 feet wide, and shell, 10 feet wide, from Haden Road, asphalt, 20 feet wide.	Via private road, unimproved, 12 feet wide, from Haden Road, asphalt, 20 feet wide, from State Highway 73 and Interstate Highway 10.
WATER SUPPLY (Available to Vessels)	Through one 2-inch line with hose connection.	None.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	A.C., 110 volts.
FIRE PROTECTION (Other than City)	Hydrant in rear and hand extinguishers.	Hand extinguishers.	Hand extinguishers and chemical cart.
REMARKS	Two 6-inch pipelines extend from wharf to 9 steel storage tanks in rear, total capacity 110,000 barrels.	Wharf was formerly used for receipt of sulphuric acid.	One 6-inch pipeline extends from wharf to one 17,850-barrel, steel storage tank located at plant in rear.

Corps of Engineers Port Code No.	60370 Dock Code No. 292	60370 Dock Code No. 293	60370 Dock Code No. 291
REFERENCE NUMBER ON MAP NO. 3	79	80	81
NAME	Walton Barge Terminal, Wharf and Barge Slip.	Byer's Barge Terminal Wharf.	Platzer Shipyard, Upper Wharf and Slip.
LOCATION ON WATERFRONT	Right bank of Greens Bayou, between Union Pacific and Port Terminal Railroad bridges. 13020 Sarah's Lane	Right bank of Greens Bayou, approximately 1,000 feet below Port Terminal Railroad bridge. 13031 Industrial Road	Right bank of Greens Bayou, approximately 1.5 miles above junction with Houston Ship Channel. Industrial Road
OWNED BY	Walton & Son Stevedoring and Contracting Co.	Byer's Barge Terminal, Division of Houston Compressed Steel Corp.	Platzer Shipyard, Inc.
OPERATED BY	Walton & Son Stevedoring and Contracting Co.	Byer's Barge Terminal, Division of Houston Compressed Steel Corp.	Platzer Shipyard, Inc.
PURPOSE FOR WHICH USED	Receipt and shipment of fiber glass tanks, steel pipe, steel products, and newsprint; receipt of bulk fertilizers and ferroalloys; shipment of synthetic rubber.	Receipt and shipment of scrap metal, steel pipe, and pipe coating materials in drums.	Mooring small vessels and barges for repair; mooring company-owned floating equipment.
TYPE OF CONSTRUCTION	Bulkheads along bank of Bayou and slip: concrete-capped, steel plate bulkhead fronted by steel pipe piles, solid fill; timber fenders; additional berthing available along natural bank between Market Street Road and Union Pacific Railroad bridges.	One 800- and one 100-foot steel plate bulkheads fronted by steel pipe piles, solid fill; additional berthing available for barges along approximately 800 feet of natural bank on upper side.	Remains of timber bulkhead, solid fill, along upper and lower sides of slip; 155-foot steel sheet pile bulkhead with solid fill, fronted by steel pipe mooring piles along bayou below entrance to slip.

DESCRIPTION	Faces of bulkheads	Barge slip lower/upper	Barge slip inner end	Face			Face of bulkhead	Upper side of slip	Lower side of slip
Dimensions (Feet)	242+116	316/303	124	800+100			155	300	300
Depth Alongside at MLT Do.	9-10	9-10	9-10	9			3-4	16	16
Breasting Distance Do.	242 + 116	316/303	124	1,100 w/bank			155	200	90+25+190
Total Berthing Space Do.	242 + 116	316/303	124	1,100			155	200	90+25+190
Width of Apron Do.	65 & 80	Open.	Open.	Open.			Open.	Open.	Open.
Height of Deck at MLT Do.	7	7	7	5-6			5-6		
Load Capacity (Lbs per Sq. Ft.)	-	-	-	650			-		
Lighted or Unlighted	Lighted.			Unlighted.			Lighted.		

	79	80	81
MECHANICAL HANDLING FACILITIES	One 70-ton, diesel, crawler crane, with 70-foot boom; one 150-ton diesel crawler crane, with 110-foot boom; one 35-ton, gasoline mobile crane, with 70-foot boom; one electric, overhead crane equipped with two 5-ton hoists extending from exterior of Warehouse No. 1 over 3 rail tracks and barge berth on upper side of slip; and diesel fork lift trucks.	Two 57-ton, diesel, locomotive cranes, each with 60-foot boom; three 35-ton, diesel, crawler cranes, each with 70-foot boom equipped with 72-inch diameter electric magnet; and one 10- and one 8-ton, gasoline, forklift trucks.	One 150-ton, diesel, crawler crane with 120-foot boom; two 20-ton, diesel, crawler cranes each with 70-foot boom, 2 gas winch trucks; and one overhead gantry crane on 60-foot span with 15-ton electric hoist located over barge building area on upper side of slip.
RAILWAY CONNECTIONS	Three surface tracks along rear of upper side of slip join additional trackage in rear; connect with Port Terminal Railroad.	Two surface tracks in rear of lower wharf section and one along rear of upper section connect with Port Terminal Railroad.	None.
HIGHWAY CONNECTIONS	Via Sarah's Lane, asphalt, 22 feet wide, from Miles Street, concrete 22 feet wide.	Via Lila Lane, shell, 20 feet wide, from Miles Street, concrete, 22 feet wide.	Via private road, shell, 20 feet wide, from Industrial Road, concrete, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 2-inch line.	None.	Through one 1-inch line.
ELECTRIC POWER (Available to Vessels)	A.C., 110/220 volts.	None.	A.C., 110/440 volts.
FIRE PROTECTION (Other than City)	Sprinkler system in warehouses, hose, hand extinguishers, and security patrol.	Hand extinguishers and pump on water tank car.	Pump, 4-inch fireline, hose, hand extinguishers, and security patrol.
REMARKS	Warehouse No. 1 is located in rear and parallel to upper side of slip; Warehouse No. 3 is located in rear of inner end of slip; and Warehouse Nos. 2 and 4 are located approximately 1,100 feet west of inner end of slip. In addition, approximately 60 acres of open storage area are available in rear of slip.	One 225- by 90-foot warehouse at rear of 100-foot section of bulkhead equipped with one 5- and one 3-ton overhead bridge cranes. Slip formed by natural bank below lower bulkhead was formerly used for hauling out steel vessel hulls for scrapping. Approximately 40 acres of open storage area are available at rear.	Slip is 150 feet wide at outer 90-foot portion and 120 feet wide at inner 190-foot portion. One 1,000-ton marine railway located at head of slip. Bulkhead along Bayou is in line and contiguous with 75-foot bulkhead, described under Ref. No. 82, providing a total of 230 feet of continuous berthing space.

Corps of Engineers Port Code No.	60370 Dock Code No. 283	60370 Dock Code No. 283	60370 Dock Code No. 283
REFERENCE NUMBER ON MAP NO. 3	82	83	84
NAME	Platzer Shipyard, Lower Wharf and Slip.	Brown & Root Marine Operators Slip and Upper Barge Wharf.	Brown & Root Marine Operators, Yard C Wharf.
LOCATION ON WATERFRONT	Right bank of Greens Bayou, approximately 1.4 miles above junction with Houston Ship Channel. Industrial Road	Right bank of Greens Bayou, approximately 1.4 miles above junction with Houston Ship Channel. Industrial Road	Right bank of Greens Bayou, approximately 1.2 miles above junction with Houston Ship Channel. Industrial Road
OWNED BY	Brown and Root, Inc.	Highland Resources, Inc.	Highland Resources, Inc.
OPERATED BY	Platzer Shipyard, Inc.	Brown & Root Marine Operators, Inc., subsidiary of Brown & Root, Inc.	Brown & Root Marine Operators, Inc., subsidiary of Brown & Root, Inc.
PURPOSE FOR WHICH USED	Mooring small vessels and barges for repair; cleaning , and gas-freeing; mooring company-owned floating equipment.	Handling prefabricated quarters and shop buildings, and other units for offshore oil well drilling platforms.	Mooring steel fabricated structures used for the construction of offshore oil well drilling platforms; receipt of structural steel and steel pipe.
TYPE OF CONSTRUCTION	Wharf: Steel sheet pile bulkhead with solid fill, fronted by steel pipe mooring piles. Slip: Upper side of dredged slip fronted by timber mooring piles.	South side of slip: concrete-capped, concrete bulkhead with solid fill; wharf: closely driven timber pile bulkhead with solid fill.	Bulkhead formed by concrete panels set between steel, wide flange, beam piles, with solid fill; fronted by steel pipe fender system.

DESCRIPTION	Wharf	Upper side of slip		South side of slip	Wharf		Face		
Dimensions (Feet)	75	625		654	215		200,194,&620		
Depth Alongside at MLT Do.	5	0-6		16	4-10		15-18		
Breasting Distance Do.	215	625		654	215		200,194,&620		
Total Berthing Space Do.	215	625		654	215		200,194,&620		
Width of Apron Do.	Open.	Open.		Open.	Open.		Open.		
Height of Deck at MLT Do.	5-6	5-6		-	5-6		8		
Load Capacity (Lbs per Sq. Ft.)	-	-		-	-		-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Use of crawler and mobile cranes described under Ref. No. 81.	None.	Four diesel crawler cranes, each equipped with 160-foot boom, rated capacity 125 tons with 90-foot boom at 16-foot radius; and use of crawler and mobile cranes described under Ref. No. 88. (See Remarks.)
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via private road, oiled shell, 20 feet wide,, from Industrial Road, concrete, 40 feet wide.	Via private road, shell, 18 feet wide, from Industrial Road, concrete, 40 feet wide.	Via private roads, slag and concrete, 22-25 feet wide, from Industrial Road, concrete, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 1-inch line.	Through 1-inch line.	Through lines with 2 1/2-inch hose connections.
ELECTRIC POWER (Available to Vessels)	A.C., 110/440 volts.	Available.	A.C., 110/220/440 volts.
FIRE PROTECTION (Other than City)	Pump, 4-inch fire line, hose, hand extinguishers, and security patrol.	Hand extinguishers.	Wells, one 120,000-gallon water tower, 200,000-gallon ground reservoir, hydrants, and security patrol.
REMARKS	Additional berthing space is available across two launching ramps and steel pier extending from bank on upper side of wharf.	See Remarks Ref. No. 84.	Oxygen, acetylene gas, and compressed air lines are available at all Brown & Root wharves and slips. Marine repair and construction activities at Ref. Nos. 84 through 88 are primarily for company-owned floating equipment. One 800-, three 500-, two 250-, and one 50-ton floating cranes are available for use at Ref. Nos. 84 through 88. In addition, "Big John," a 500-ton floating crane owned by Highland Resources, Inc., and operated by Greens Bayou Terminal (an affiliated company) based at Ref. No. 88 is also available for use at all Brown & Root waterfront facilities and is available for hire in the Houston, Galveston, and Texas City port areas.

Corps of Engineers Port Code No.	40270 Dock Code No. 283	40270 Dock Code No. 283	40270 Dock Code No. 283
REFERENCE NUMBER ON MAP NO. 3	85	86	87
NAME	Brown & Root Marine Operators, Slip B and Wharf.	Brown & Root Marine Operators, Slip A and Wharf.	Brown & Root Marine Operators, Lower Wharf.
LOCATION ON WATERFRONT	Right bank of Greens Bayou, approximately 1.1 miles above junction with Houston Ship Channel. Industrial Road	Right bank of Greens Bayou, approximately one mile above junction with Houston Ship Channel. Industrial Road	Right bank of Greens Bayou, approximately 0.7 miles above junction with Houston Ship Channel. Industrial Road
OWNED BY	Highland Resources, Inc.	Highland Resources, Inc.	Highland Resources, Inc.
OPERATED BY	Brown & Root Marine Operators, Inc., subsidiary of Brown & Root, Inc.	Brown & Root Marine Operators, Inc., subsidiary of Brown & Root, Inc.	Brown & Root Marine Operators, Inc., subsidiary of Brown & Root, Inc.
PURPOSE FOR WHICH USED	Mooring steel fabricated structures for the construction of offshore oil well drilling platforms; receipt of structural steel and steel pipe.	Mooring steel fabricated structures for offshore oil well drilling platforms; receipt of structural steel and steel pipe.	Mooring small vessels, barges, and offshore oil well drilling platforms for outfitting and repair.
TYPE OF CONSTRUCTION	Slip B and wharf between Slips B and A: Prefabricated reinforced concrete panels set between steel, wide flange beam piles, with solid fill; fronted by steel pipe fender system.	Slip A and wharf below entrance to slip: prefabricated, reinforced concrete panels set between steel, wide flange beam piles, with solid fill; fronted by steel pipe pile fender system.	Two removable steel platforms with timber decks fronting 1,100 feet of timber bulkhead with solid fill; additional 1,000 feet of berthing available along natural bank adjacent to upper end.

DESCRIPTION	Head of slip	Sides of slip	Wharf	Head of slip	Sides of slip	Wharf	Face of platforms		
Dimensions (Feet)	160	294 & 334	170	170	393 & 364	190+103	290 and 380		
Depth Alongside at MLT Do.	15-18	15-18	15-18	15-18	15-18	15-18	15		
Breasting Distance Do.	160	294 & 334	170	170	393 & 364	190	2,100 approx		
Total Berthing Space Do.	160	294 & 334	170	170	393 & 364	190	2,100 approx		
Width of Apron Do.	Open.	Open.	Open.	Open.	Open.	Open.	Open.		
Height of Deck at MLT Do.	12			12	-	-	3-6		
Load Capacity (Lbs per Sq. Ft.)	1,200			1,200	-	-	-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Use of crawler, mobile, and floating cranes described under Ref. Nos. 84 and 88..	One 40-ton, diesel, locomotive crane with 90-foot boom; use of crawler, mobile, and floating cranes described under Ref. Nos. 84 and 88.	Two 40-ton, electric, traveling, revolving, full-portal, gantry cranes located on 1,240-foot section of track parallel to and 90 feet in rear of bulkhead; one identical gantry crane located 235 feet in rear and parallel with bulkhead; all 3 gantry cranes serve assembly and barge building areas. Use of crawler, mobile, floating, and locomotive cranes described under Ref. Nos. 84, 86, and 88.
RAILWAY CONNECTIONS	None.	One surface track along lower side of slip joins additional trackage in rear; connects with Port Terminal Railroad.	Two surface tracks in rear join additional trackage; connect with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via private roads, gravel and concrete, 22 to 28 feet wide, from Industrial Road, concrete, 40 feet wide.	Via private roads, gravel and concrete, 22 to 28 feet wide, from Industrial Road, concrete, 40 feet wide.	Via private roads, gravel and concrete, 22 to 28 feet wide, from Industrial Road, concrete, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through 2 1/2-inch lines.	Through 2 1/2-inch lines.	Through 2 1/2-inch lines.
ELECTRIC POWER (Available to Vessels)	A.C., 110/220/440 volts.	A.C., 110/220/440 volts.	A.C., 110, and 220/440 volts.
FIRE PROTECTION (Other than City)	Wells, one 120,000-gallon water tower, 200,000-gallon ground reservoir, hydrants, and security patrol.	Wells, one 120,000-gallon water tower, 200,000-gallon ground reservoir, hydrants, and security patrol.	Wells, one 120,000-gallon water tower, 200,000-gallon ground reservoir, hydrants, and security patrol.
REMARKS	-	-	-

PIERS, WHARVES, AND DOCKS

Corps of Engineers Port Code No.	60370 Dock Code No. 283	60370 Dock Code No. 283	60370 Dock Code No. 282
REFERENCE NUMBER ON MAP NO. 3	88	89	90
NAME	Joe D. Hughes Greens Bayou Terminal, Yard B Wharf.	Brown Foundation, Pier No. 1.	Brown Foundation, Pier No. 2.
LOCATION ON WATERFRONT	Right bank, Greens Bayou, approximately 0.8 mile above junction with Houston Ship Channel. 14038 Industrial Road	Right bank of Greens Bayou, approximately 0.2 mile above junction with Houston Ship Channel. Industrial Road	Left bank of Houston Ship Channel, approximately 800 feet above entrance to Greens Bayou. Industrial Road
OWNED BY	Joe D. Hughes, Inc., a subsidiary of Brown & Root, Inc.	Brown Foundation.	Brown Foundation.
OPERATED BY	Joe D. Hughes, Inc., a subsidiary of Brown & Root, Inc.	Not operated.	Not operated.
PURPOSE FOR WHICH USED	Receipt and shipment of general cargo, including pipe, machinery, and heavy equipment.	Not used.	Not used.
TYPE OF CONSTRUCTION	Timber bulkhead with solid fill, fronted by timber pile, timber-decked extension; steel pipe pile fender system along face.	Concrete pile, concrete-decked wharf fronting steel sheet pile bulkhead with solid fill with a steel pile, concrete-decked pier extension on lower side and a timber pile, timber-decked extension on upper side are both in line with face.	Timber pile, timber-decked pier extending from irregular-shaped steel pile bulkhead with solid fill.

DESCRIPTION	Face			Face	Ends	Rear of face	Face	Lower side	Upper side
Dimensions (Feet)	350+640			150+600+470	40, each	150+470	40	750	530
Depth Alongside at MLT Do.	15-18			30	30	30	21	47	21
Breasting Distance Do.	350+640			1,220	-	150+470	40	-	530
Total Berthing Space Do.	350+640			1,220	-	150+470	40	-	530
Width of Apron Do.	Open.			Open & 40.	-	40	Open.		
Height of Deck at MLT Do.	8-9			14	-	14	14		
Load Capacity (Lbs per Sq. Ft.)	800			800	-	500	-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One 200-ton, diesel, crawler crane with 130-foot boom; one 70-ton, diesel, crawler crane with 140-foot boom and 30-foot jib extension; one 80-ton, diesel, crawler crane with 110-foot boom and 30-foot jib extension; three 15-ton, diesel, mobile cranes with telescopic booms; and one 10-, one 7.8-, and five 22-ton diesel fork lift trucks.	None.	None.
RAILWAY CONNECTIONS	Two surface tracks in rear join additional trackage; connect with Port Terminal Railroad.	Trackage in rear connects with Port Terminal Railroad.	One surface track on pier joins additional trackage in rear; connects with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via private roads, gravel and concrete, 22 to 25 feet wide, from Industrial Road, concrete, 40 feet wide.	Via roads, concrete, 22 feet wide, from Industrial Road, concrete, 40 feet wide.	Via roads, concrete, 22 feet wide, from Industrial Road, concrete, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through 8-inch line with 2 1/2-inch connections.	Through one 6-inch line with 1 1/2- and 2 1/2-inch hose connections.	Through one 8-inch line with 1 1/2- and 2-inch hose connections.
ELECTRIC POWER (Available to Vessels)	A.C., 110/220/440 volts.	None.	None.
FIRE PROTECTION (Other than City)	Wells, one 120,000-gallon water tower, 200,000-gallon ground reservoir, hydrants, and security patrol.	Plant wells, pumps, hose, hand extinguishers, and security patrol.	Plant wells, pumps, hose, hand extinguishers, and security patrol.
REMARKS	A 500-ton floating crane "Big John" is based at wharf. Company is affiliated with Brown & Root Marine Operators, Inc.; crawler and floating cranes listed above are available for use at all Brown & Root waterfront facilities. Approximately 3 acres of open storage area are located in rear.	Facility is part of a former shipyard.	Facility is part of a former shipyard.

Corps of Engineers Port Code No.	60370 Dock Code No. 283	60370 Dock Code No. 283	60370 Dock Code No. 283
REFERENCE NUMBER ON MAP NO. 3	91	92	93
NAME	Brown Foundation, Oil Pier.	Brown & Root Marine Operators, Yard E Wharf.	Greens Bayou Terminal, Yard D Wharf.
LOCATION ON WATERFRONT	Left bank of Houston Ship Channel, approximately 1000 feet above entrance to Greens Bayou. Industrial Road	Left bank of Houston Ship Channel, approximately 0.5 mile above entrance to Greens Bayou. Industrial Road	Left bank Houston Ship Channel, approximately 0.7 mile above entrance to Greens Bayou. 14035 Industrial Road
OWNED BY	Brown Foundation.	Highland Resources, Inc.	Highland Resources, Inc.
OPERATED BY	Not operated.	Brown & Root Marine Operators, Inc., subsidiary of Brown & Root, Inc.	Greens Bayou Terminal Co., division of Brown & Root, Inc.
PURPOSE FOR WHICH USED	Not used.	Shipment of offshore oil well drilling platforms, and other large fabricated steel structures.	Receipt and shipment of conventional, containerized, and roll-on roll-off general cargo, including pipe, machinery, and heavy equipment.
TYPE OF CONSTRUCTION	Timber pile, timber-decked, offshore wharf 55- by 18-foot timber approach flared at outer end; fronted by 4 timber dolphins and one at each end.	Concrete-capped, steel sheet pile bulkhead with solid fill; fronted by steel pipe pile fender system. One 50- by 290- and one 50- by 215-foot skidways 230 feet apart extend 35 feet over face of wharf.	Rectangular ship formed by concrete-capped, steel sheet pile retaining walls with solid fill; fronted by steel pipe pile fender system.

DESCRIPTION	Face	Sides	Face	Lower side	Head of slip	Sides
Dimensions (Feet)	200	20, each	1,020	80	730	104, each
Depth Alongside at MLT Do.	19	-	24-26	-	24-26	24-26
Breasting Distance Do.	200	-	1,020	-	700	104, each
Total Berthing Space Do.	200	-	1,020	-	700	104, each
Width of Apron Do.	Open.		Open.		Open.	-
Height of Deck at MLT Do.	14		8-12		8-12	8-12
Load Capacity (Lbs per Sq. Ft.)	-		-		-	-
Lighted or Unlighted	Lighted.		Lighted.		Lighted.	

MECHANICAL HANDLING FACILITIES	None.	Use of crawler, mobile, and floating cranes described under Ref. Nos. 84 and 88.	Use of crawler, mobile, and floating cranes described under Ref. No. 88.
RAILWAY CONNECTIONS	Trackage in rear connects with Port Terminal Railroad.	None.	None.
HIGHWAY CONNECTIONS	Via roads, concrete, 22 feet wide, from Industrial Road, concrete, 40 feet wide.	Via Industrial Road, concrete, 45 feet wide.	Via Industrial Road, concrete, 45 feet wide.
WATER SUPPLY (Available to Vessels)	None.	Through lines with 2 1/2-inch connections.	Through lines with 2 1/2-inch connections.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 110/220/440 volts.	A.C., 110/220/440 volts.
FIRE PROTECTION (Other than City)	Plant wells, pumps, hose, hand extinguishers, and security patrol.	Wells, one 120,000-gallon water tower, 200,000-gallon reservoir, hydrants, and security patrol.	Wells, one 120,000-gallon water tower, 200,000-gallon reservoir, hydrants, and security patrol.
REMARKS	Wharf was formerly used for receipt of fuel oil; however, all pipelines have been removed.	Oxygen, acetylene gas, and compressed air lines serve wharf.	Approximately 25 acres of marshalling area are located in rear.

Corps of Engineers Port Code No.	60370 Dock Code No. 300	60370 Dock Code No. 300	60370 Dock Code No. 308
REFERENCE NUMBER ON MAP NO. 3	94	95	96
NAME	TXTX Marine, Lower Wharf.	TXTX Marine, Barge Dock.	Amerada Hess Corp., Barge Dock No. 4.
LOCATION ON WATERFRONT	Left bank Houston Ship Channel, approximately 1.1 miles above entrance to Greens Bayou. Industrial Road	Left bank Houston Ship Channel, approximately 1.4 miles above entrance to Greens Bayou. Industrial Road	Left bank Houston Ship Channel, approximately 1.5 mile above entrance to Greens Bayou.
OWNED BY	Armco Western Steel Division, Inc.	Armco Western Steel Division, Inc.	Amerada Hess Corp.
OPERATED BY	TXTX Marine, Inc.	TXTX Marine, Inc.	Not operated.
PURPOSE FOR WHICH USED	Receipt of coal and granite; receipt and shipment of steel products, containerized general cargo; and shipment of petroleum coke.	Shipment of steel products, coke, and containerized general cargo.	Not used.
TYPE OF CONSTRUCTION	Concrete-capped, steel sheet pile bulkhead with solid fill; fronted by timber fender system.	Prestressed concrete sheet pile bulkhead with solid fill; fronted by timber fender system.	Steel sheet pile bulkhead with concrete-surfaced, sloped solid fill fronted by 2 offshore, concrete-filled, steel pipe pile mooring dolphins.
DESCRIPTION	Face	Face	Dolphins
Dimensions (Feet)	1,060	749	100
Depth Alongside at MLT Do.	36-41	15	12
Breasting Distance Do.	1,080	749	100
Total Berthing Space Do.	1,080	749	100
Width of Apron Do.	Open.	10 and Open.	-
Height of Deck at MLT Do.	15	10, bulkhead; 20, Bldg. fl	-
Load Capacity (Lbs per Sq. Ft.)	2,000	-	-
Lighted or Unlighted	Lighted.	lighted.	Unlighted.
MECHANICAL HANDLING FACILITIES	One electric, traveling, ore unloader with hinged 95-foot boom and 11-ton traveling grab bucket, unloading rate 1,000 tons per hour; one 87 1/2-ton,electric, traveling, revolving, full-portal, gantry crane, equipped with 87- and 65-inch diameter, electric magnets, and a 7-cubic yard bucket. Ore unloader serves a 36-inch wide, electric, belt-conveyor system extending along rear of wharf with transverse belts extending to storage areas in rear.	One 40-ton, electric, traveling, over-head crane on craneway in shipping building, extends over barge berth, outboard reach 51 feet; crane equipped with three 36-inch diameter, electric magnets, used in tandem for handling steel products between building and barges.	None.
RAILWAY CONNECTIONS	Two tracks on wharf join at each end with additional trackage serving steel plant in rear; connect with Port Terminal Railroad and Union Pacific Railroad.	Two surface tracks extend through rear of barge-shipping building, join with additional trackage serving steel plant; connect with Port Terminal Railroad.	Two surface tracks extend along bank in rear; connect with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via plant road, paved, 24-30 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.	Via plant road, paved, 24-30 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.	Via plant road (First Street), asphalt and concrete, 20-22 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 4-inch line with 1 1/2-inch hose connections.	None.	None.
ELECTRIC POWER (Available to Vessels)	A.C., 110 volts.	None.	None.
FIRE PROTECTION (Other than City)	Plant fire department, 8-inch fire-line with automatic booster pump, hose, and hand extinguishers.	Hand extinguishers and plant fire department.	Hydrants and hand extinguishers; monitor nozzles along shore.
REMARKS	Traveling unloader has a receiving hopper serving electric belt conveyor on wharf which connects with electric belt-conveyor system extending to 5 storage locations serving plant in rear. Two diesel, crawler, front-end loaders are used for cleaning vessels' holds.	Wharf face is recessed 70 feet in rear of line of bank. One 225- by 104-foot, steel-framed, metal-covered, shipping building in rear. Crane cab is 13 feet above floor and craneway is 33 feet above MLT.	-

Corps of Engineers Port Code No.	60370 Dock Code No. 308	60370 Dock Code No. 308	60370 Dock Code No. 308
REFERENCE NUMBER ON MAP NO. 3	97	98	99
NAME	Amerada Hess Corp., Barge Dock No. 3.	Amerada Hess Corp., Barge Dock No. 2.	Amerada Hess Corp., Drum Dock.
LOCATION ON WATERFRONT	Left bank Houston Ship Channel, approximately 1.6 mile above entrance to Greens Bayou.	Left bank Houston Ship Channel, approximately 1.7 mile above entrance to Greens Bayou.	Left bank Houston Ship Channel, approximately 1.7 mile above entrance to Greens Bayou.
OWNED BY	Amerada Hess Corp.	Amerada Hess Corp.	Amerada Hess Corp.
OPERATED BY	Amerada Hess Corp.	Amerada Hess Corp.	Not operated.
PURPOSE FOR WHICH USED	Receipt and shipment of petroleum products, petrochemicals, chemicals, and coal tar; supplying harbor-bunkering barges.	Receipt and shipment of petroleum products, petrochemicals, chemicals, and coal tar; supplying harbor-bunkering barges.	Not used.
TYPE OF CONSTRUCTION	Steel sheet pile bulkhead with solid fill; fronted by a 30- by 30-foot, 4 feet high concrete wall enclosing hose connections; 5 steel and timber breasting dolphins in line with face of wall.	Timber pile, timber-decked, offshore wharf with 50- by 6-foot approach extending to upper end from steel sheet pile bulkhead; 2 steel breasting dolphins in line with face.	Concrete and steel pile timber-surfaced concrete deck offshore wharf with 35-by 8-foot approach from steel sheet pile bulkhead with solid fill.

DESCRIPTION	Face	Lower side	Upper side	Face	Lower side	Upper side	Face	Lower side	Upper side
Dimensions (Feet)	30	30	30	15	15	15	40	25	25
Depth Alongside at MLT Do.	12	-	-	12	-	-	12	-	-
Breasting Distance Do.	150 w/dlph	-	-	150 w/dlph	-	-	40	-	-
Total Berthing Space Do.	150 w/dlph	-	-	150 w/dlph	-	-	40	-	-
Width of Apron Do.	-			Open.			Open.		
Height of Deck at MLT Do.	7			7			13		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Hose rack with pneumatic hoist.	Hose rack with pneumatic hoists.	None.
RAILWAY CONNECTIONS	Two surface tracks extend along bank in rear; connect with Port Terminal Railroad.	Two surface tracks along bank in rear join 3 tracks serving tank car loading racks; connect with Port Terminal Railroad.	Two surface tracks along bank in rear join 3 tracks serving tank car loading racks; connect with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via plant road (First Street), asphalt and concrete, 20-22 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.	Via plant road (First Street), asphalt and concrete, 20-22 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.	Via plant road (First Street), asphalt and concrete, 20-22 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 2-inch line with hose connection.	Through 2-inch line with hose connection.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Hydrants and hand extinguishers; monitor nozzles along shore.	Hydrants and hand extinguishers; monitor nozzles along shore.	Hydrants and hand extinguishers; monitor nozzles along shore.
REMARKS	Five 8- and three 6-inch pipelines extend from wharf to 137 steel storage tanks, total capacity 4,500,000 barrels. One 6-inch steam line serves wharf.	Twelve 10-, eleven 8-, twenty-seven 6-, and two 4-inch pipelines extend from wharf to storage tanks described under Ref. No. 97. One 4-inch steam and one 2-inch compressed air lines serve wharf.	-

Corps of Engineers Port Code No.	60370 Dock Code No. 308			60370 Dock Code No. 308			60370 Dock Code No. 308		
REFERENCE NUMBER ON MAP NO. 3	100			101			102		
NAME	Amerada Hess Corp., Barge Dock No. 1.			Amerada Hess Corp., Ship Dock No. 2.			Amerada Hess Corp., Ship Dock No. 1.		
LOCATION ON WATERFRONT	Left bank Houston Ship Channel, approximately 1.8 mile above entrance to Greens Bayou.			Left bank Houston Ship Channel, approximately 1.9 mile above entrance to Greens Bayou.			Left bank, Houston Ship Channel, lower side at entrance to cove below Hunting Bayou.		
OWNED BY	Amerada Hess Corp.			Amerada Hess Corp.			Amerada Hess Corp.		
OPERATED BY	Amerada Hess Corp.			Amerada Hess Corp.			Amerada Hess Corp.		
PURPOSE FOR WHICH USED	Receipt and shipment of petroleum products, petrochemicals, chemicals, and coal tar; supplying harbor-bunkering barges.			Receipt and shipment of petroleum products, petrochemicals, chemicals, acids and caustic; bunkering vessels using wharf; supplying harbor-bunkering barges.			Receipt and shipment of petroleum products, petrochemicals, chemicals, acids and caustic; bunkering vessels using wharf; supplying harbor-bunkering barges.		
TYPE OF CONSTRUCTION	Steel frame platform with steel grid deck extending over steel sheet pile bulkhead with solid fill; one timber and 3 steel pipe pile mooring dolphins in line with face of platform.			Concrete pile, concrete-decked, offshore wharf with 140- by 13-foot approach; 3 timber and one steel sheet pile, cellular breasting dolphin in line with face, one low-level platform located at each side of wharf.			Concrete-filled, steel pipe pile, concrete-decked offshore wharf with 50- by 30-foot approach; 3 rubber-cushioned steel and concrete and one steel sheet pile, cellular breasting dolphins in line with face.		
DESCRIPTION	Face	Lower side	Upper side	Face	Lower side	Upper side	Face	Outer end	Inner end
Dimensions (Feet)	30	30	30	100	21	21	120	35	35
Depth Alongside at MLT Do.	12	-	-	32	-	-	45	-	-
Breasting Distance Do.	150 w/dlph	-	-	300 w/dlph	-	-	700 w/dlph	-	-
Total Berthing Space Do.	150 w/dlph	-	-	300 w/dlph	-	-	700 w/dlph	-	-
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	8			13, wharf; a 3, 8 platform			17		
Load Capacity (Lbs per Sq. Ft.)	-			600			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		
MECHANICAL HANDLING FACILITIES	Hose rack with pneumatic hoist.			Three hose racks, each with pneumatic hoist.			Four 12- and five 10-inch, swivel-jointed loading arms.		
RAILWAY CONNECTIONS	Two surface tracks along bank in rear join 3 tracks serving tank car loading racks; connect with Port Terminal Railroad.			Tracks serving terminal in rear connect with Port Terminal Railroad.			Tracks serving terminal in rear connect with Port Terminal Railroad.		
HIGHWAY CONNECTIONS	Via plant road (First Street), asphalt and concrete, 20-22 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.			Via plant road (First Street), asphalt and concrete, 20-22 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.			Via plant road (First Street), asphalt and concrete, 20-22 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.		
WATER SUPPLY (Available to Vessels)	Through 2-inch line.			Through 2-inch line.			None.		
ELECTRIC POWER (Available to Vessels)	None.			None.			None.		
FIRE PROTECTION (Other than City)	Hydrants and hand extinguishers; monitor nozzles along shore.			Pump, hydrants and hand extinguishers; monitor nozzles along shore.			Ten-inch fire water line, and foam system.		
REMARKS	Eleven 8- and seven 6-inch pipelines extend from wharf to storage tanks described under Ref. No. 97.			Twelve 10-, eleven 8-, twenty-seven 6-, and two 4-inch pipelines extend from wharf to the storage tanks described under Ref. No. 97. Compressed air, steam, and nitrogen lines serve wharf.			One 24-, one 20-, two 14-, and three 2-inch pipelines extend from wharf to tankage described under Ref. No. 97.		

Corps of Engineers Port Code No.	60370 Dock Code No. 310	60370 Dock Code No. 310	60370 Dock Code No. 310
REFERENCE NUMBER ON MAP NO. 3	103	104	105
NAME	Warren Petroleum Co., Dock No. 1.	Warren Petroleum Co., Dock No. 2.	Warren Petroleum Co., Dock No. 2-A.
LOCATION ON WATERFRONT	Hunting Bayou, lower side inner end of turning basin.	Hunting Bayou, upper side inner end of cove below entrance.	Left bank of Hunting Bayou at entrance to Houston Ship Channel.
OWNED BY	Warren Petroleum Co., division of Chevron U.S.A. Inc.	Warren Petroleum Co., division of Chevron U.S.A. Inc.	Warren Petroleum Co., division of Chevron U.S.A. Inc.
OPERATED BY	Warren Petroleum Co., division of Chevron U.S.A. Inc.	Warren Petroleum Co., division of Chevron U.S.A. Inc.do.	Warren Petroleum Co., division of Chevron U.S.A. Inc.
PURPOSE FOR WHICH USED	Receipt and shipment of liquefied petroleum gas.	Receipt and shipment of liquefied petroleum gas.	Receipt and shipment of liquefied petroleum gas.
TYPE OF CONSTRUCTION	Timber pile, timber-decked, offshore wharf with 250- by 8-foot approach; fronted by 12 timber breasting dolphins fronting and in line with face.	Timber pile, timber-decked, offshore wharf with 135- by 10-foot approach; 4 timber pile breasting dolphins in line with face; approach to wharf extends at right angle from outer end of a 550-foot long timber pile, timber-decked walkway and pipeline trestle extending from shore.	Timber pile, timber-decked, offshore wharf with L-shaped 100- by 10-foot and 200- by 12-foot timber approach extending from junction of approaches to Ref. Nos. 106 and 108; 4 timber breasting dolphins in line with face.

DESCRIPTION	Face	Lower side	Upper side	Face	Lower side	Upper side	Face	Lower side	Upper side
Dimensions (Feet)	100	20	20	90	20	20	20	20	20
Depth Alongside at MLT Do.	36	-	-	36	-	-	12	-	-
Breasting Distance Do.	300 w/dlph	-	-	300 w/dlph	-	-	160 w/dlph	-	-
Total Berthing Space Do.	300 w/dlph	-	-	300 w/dlph	-	-	160 w/dlph	-	-
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	15			15			7		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Two electric- and 2 hand-operated, mast-and-boom derricks for handling hose; and one 6- and one 4-inch, swivel-jointed, loading arms.	Two electric- and 2 hand-operated, mast-and-boom derricks for handling hose; and one 8- and one 6-inch, swivel-jointed, loading arms.	One 6-inch, swivel-jointed loading arm.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via plant roads, cinder, 10 feet wide and concrete, 20 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.	Via plant roads, cinder, 10 feet wide and concrete, 20 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.	Via plant roads, cinder, 10 feet wide and concrete, 20 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 3-inch line with 2-inch hose connection.	Through one 3-inch line with 2-inch hose connection.	Through 2-inch line.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Diesel and electric pumps, hydrants, hose, chemical carts, hand extinguishers, and sprinkler system at tanks.	Diesel and electric pumps, hydrants, hose, chemical carts, hand extinguishers, and sprinkler system at tanks.	Pumps, hydrants, hose, chemical carts, hand extinguishers, and sprinkler system at tanks.
REMARKS	One 12-, three 10-, four 6-, and one 4-inch pipelines extend from wharf to 81 steel storage tanks (horizontal and spheroid) located in rear, total capacity 640,500 barrels.	One 12-, two 10-, and four 6-inch pipelines extend from wharf to storage tanks described under Ref. No. 103. One 12-, two 10-, and four 6-inch additional pipelines extend from wharf to 9 steel storage tanks located north of access road, total capacity 534,000 barrels.	One 12-, two 10-, and four 6-inch pipelines extend from wharf to storage tanks described under Ref. No. 103.

Corps of Engineers Port Code No.	60370 Dock Code No. 310	60370 Dock Code No. 310	60370 Dock Code No. 310
REFERENCE NUMBER ON MAP NO. 3	106	107	108
NAME	Warren Petroleum Co., Fueling Dock.	Warren Petroleum Co., Barge Dock No. 3.	Warren Petroleum Co., Barge Dock No. 5.
LOCATION ON WATERFRONT	Hunting Bayou, left bank above entrance to Houston Ship Channel.	Left bank, Hunting Bayou, approximately 1,100 feet above entrance to Houston Ship Channel.	Left bank of Hunting Bayou, approximately 1,200 feet above entrance from Houston Ship Channel.
OWNED BY	Warren Petroleum Co., division of Chevron U.S.A. Inc.	Warren Petroleum Co., division of Chevron U.S.A. Inc.	Warren Petroleum Co., division of Chevron U.S.A. Inc.
OPERATED BY	Warren Petroleum Co., division of Chevron U.S.A. Inc.	Warren Petroleum Co., division of Chevron U.S.A. Inc.	Warren Petroleum Co., division of Chevron U.S.A. Inc.
PURPOSE FOR WHICH USED	Fueling tugs and supplying lubricating oils.	Receipt and shipment of liquefied petroleum gas.	Receipt and shipment of liquefied petroleum gas.
TYPE OF CONSTRUCTION	One floating, steel, offshore wharf with concrete-surfaced deck permanently moored at outer end of 85- by 25-foot floating steel approach extending at right angle from outer end of approach to Dock No. 2 (Ref. No. 104).	Timber pile, timber-decked offshore wharf with 50- by 10-foot timber approach; 2 timber pile breasting dolphins in line with face.	Concrete pile, concrete-decked, offshore wharf with 970- by 40-foot curved roadway and pipeline approach; a steel sheet pile, cellular turning dolphin located 600 feet off face is connected by walkway. Turning dolphin and 4 steel and concrete breasting dolphins are all in line with face.

DESCRIPTION	Face	Sides		Face	Lower side	Upper side	Face	Inner end	Outer end
Dimensions (Feet)	110	30, each		18	10	10	150	60	60
Depth Alongside at MLT Do.	12-18	-		5-9	-	-	45	-	-
Breasting Distance Do.	110	-		150 w/dlph	-	-	850 w/dlph*	-	-
Total Berthing Space Do.	110	-		150 w/dlph	-	-	850 w/dlph	-	-
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	5			10			25		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	None.	Two 6-inch, swivel-jointed, loading arms.	One 3-ton, hydraulic, mast-and-boom derrick for handling hose, and two 16-inch, swivel-jointed loading arms.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via plant roads, cinder, 10 feet wide and concrete, 20 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.	Via plant roads, cinder, 10 feet wide, and concrete, 20 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.	Via plant roads, cinder, 10 feet wide and concrete, 20 feet wide, from Federal Road, concrete, dual lane, each side 30 feet wide.
WATER SUPPLY (Available to Vessels)	Through 3-inch line with 2-inch hose connection.	Through one 2-inch line with 2-inch hose connection.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Four-inch fire line, hose, hydrant, and hand extinguishers.	Hand extinguishers.	One 8-inch fire line and foam system.
REMARKS	One 6-inch diesel fuel pipeline with four 2-inch metered hose connections extend from wharf to storage tanks described under Ref. No. 104. In addition, four 3-inch metered pipelines extend from 6 lubricating oil storage tanks, total capacity 2,590 barrels. One 4-inch pipeline on wharf was not in use at time of survey.	One 12-, three 10-, four 6-, and one 4-inch pipelines extend from wharf to storage tanks described under Ref. No. 103.	Two 20-, one 12-, and one 8-inch pipelines extend from wharf to tankage described under Ref. No. 103. *Approximately 500 feet of berthing space is available for barges along lower side of walkway between wharf and turning dolphin.

Corps of Engineers Port Code No.	60370 Dock Code No. 336	60370 Dock Code No. 336	60370 Dock Code No. 33
REFERENCE NUMBER ON MAP NO. 3	109	110	111
NAME	GATX Galena Park Terminal, Barge Dock No. 3.	GATX Galena Park Terminal, Ship Dock No. 3.	GATX Galena Park Terminal, Ship Dock No. 1.
LOCATION ON WATERFRONT	Lower side of 800-foot-wide rectangular slip opposite entrance to Vince Bayou. 906 Clinton Drive	Galena Park, left bank of Houston Ship Channel, upper side of 800-foot-wide rectangular slip opposite entrance to Vince Bayou. 906 Clinton Drive	Galena Park, left bank Houston Ship Channel, approximately 750 feet above entrance to slip opposite entrance to Vince Bayou. 906 Clinton Drive
OWNED BY	GATX Terminals Corp.	GATX Terminals Corp.	GATX Terminals Corp.
OPERATED BY	GATX Terminals Corp.	GATX Terminals Corp.	GATX Terminals Corp.
PURPOSE FOR WHICH USED	Receipt and shipment of petroleum products, chemicals, petrochemicals, vegetable oils, and other bulk liquids; bunkering vessels.	Receipt and shipment of petroleum products, chemicals, petrochemicals, vegetable oils, and other bulk liquids; bunkering vessels.	Receipt and shipment of petroleu products, chemicals, petrochemicals, vegetable oils, and other bulk liquids; bunkering vessels.
TYPE OF CONSTRUCTION	Timber and concrete pile, timber-decked, offshore wharf with 12-foot approach; 4 steel sheet pile, cellular, breasting dolphins in line with face.	Steel pile, concrete-decked, offshore wharf with 170- by 14-foot approach fronted by rubber-cushioned, steel and timber fender system; 4 steel pipe breasting dolphins in line with face.	Timber pile, timber-decked, offshore wharf with 150- by 12-foot approach; 4 steel sheet pile, cellular, breasting dolphins in line with face.

DESCRIPTION	Face	Inner side	Outer side	Face	Inner end	Outer end	Face	Lower end	Upper end
Dimensions (Feet)	85	40	40	120	26	26	125	25	25
Depth Alongside at MLT Do.	36	-	-	36	-	-	36	-	-
Breasting Distance Do.	225	-	-	690	-	-	275 w/dlph	-	-
Total Berthing Space Do.	225	-	-	690	-	-	275 w/dlph	-	-
Width of Apron Do.	40	-	-	Open.			Open.		
Height of Deck at MLT Do.	14			16			14		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One 2-ton, hydraulic crane with 37-foot telescopic boom for handling hose.	Four 3-ton, hydraulic-operated derricks, each with 55-foot boom.	Two 2-ton, hydraulic-operated derricks, each with 55-foot boom.
RAILWAY CONNECTIONS	Two surface tracks serve tank car loading racks at terminal in rear; connect with tracks of Southern Pacific Transportation Co.	Two surface tracks serve tank car loading racks at terminal in rear; connect with tracks of Southern Pacific Transportation Co.	Two surface tracks serve tank ca loading racks at terminal in rear; connect with tracks of Souther Pacific Transportation Co.
HIGHWAY CONNECTIONS	Via plant road, paved, from Clinton Drive, concrete, 36 feet wide.	Via plant road, paved, from Clinton Drive, concrete, 36 feet wide.	Via plant road, paved, from Clinto Drive, concrete, 36 feet wide.
WATER SUPPLY (Available to Vessels)	Through 4-inch line.	Through 4-inch line at each wharf.	Through one 1 1/2-inch line.
ELECTRIC POWER (Available to Vessels)	A.C., 440 volts.	A.C., 440 volts.	A.C., 460 volts.
FIRE PROTECTION (Other than City)	Monitors, pump, portable foam generator, chemical carts, hand extinguishers, and security patrol.	Monitors, pump, portable foam generator, chemical carts, hand extinguishers, and security patrol.	Monitors, pump, portable foam generator, chemical carts, hand extinguishers, and security patrol.
REMARKS	Four 20-, four 6- to 10- and additional 2- to 10-inch pipelines extend from wharf to 11 steel storage tanks in rear, total capacity 800,000 barrels, and connect with terminal tankage described under Ship Dock No. 1 (Ref. No. 111).	Three 10-, twenty-nine 8-, thirty 6-, and eleven 4-inch pipelines extend from wharf to storage tanks described under Ship Dock No. 1 (Ref. No. 111).	Three 10-, twenty-nine 8-, thirty 6- and eleven 4-inch pipelines extend from wharf to approximately 160 steel storage tanks located at terminal in rear, total capacity approximately 5,000,000 barrels. Additional barge berth located at rear of dolphin on lower side.

Corps of Engineers Port Code No.	60370 Dock Code No. 336	60370 Dock Code No. 336	60370 Dock Code No. 336
REFERENCE NUMBER ON MAP NO. 3	112	113	114
NAME	GATX, Galena Park Terminal, Barge Dock No. 1.	GATX, Galena Park Terminal, Barge Dock No. 2.	GATX, Galena Park Terminal, Ship Dock No. 2.
LOCATION ON WATERFRONT	Galena Park, left bank Houston Ship Channel, approximately 1,200 feet above entrance to slip opposite entrance to Vince Bayou. 906 Clinton Drive	Galena Park, left bank Houston Ship Channel, approximately 0.7 mile above entrance to slip opposite entrance to Vince Bayou. 906 Clinton Drive	Galena Park, left bank Houston Ship Channel, approximately 0.9 mile above entrance to slip opposite entrance to Vince Bayou. 906 Clinton Drive
OWNED BY	GATX Terminals Corp.	GATX Terminals Corp.	GATX Terminals Corp.
OPERATED BY	GATX Terminals Corp.	GATX Terminals Corp.	GATX Terminals Corp.
PURPOSE FOR WHICH USED	Receipt and shipment of petroleum products, chemicals, petrochemicals, vegetable oils, and other bulk liquids; supplying harbor-bunkering barges.	Receipt and shipment of petroleum products, chemicals, petrochemicals, vegetable oils, and other bulk liquids; supplying harbor-bunkering barges.	Receipt and shipment of petroleum products, chemicals, petrochemicals, vegetable oils, and other bulk liquids; supplying harbor-bunkering barges.
TYPE OF CONSTRUCTION	Timber pile, timber-decked, offshore wharf with 75- by 6-foot approach; 5 steel pile breasting dolphins in line with face; steel and timber fender system along face.	Concrete-capped, steel sheet pile bulkhead with part concrete-surfaced solid fill.	Concrete pile, concrete-decked, offshore wharf, with 100- by 16-foot approach; fronted by rubber-cushioned, steel and timber fender system; 4 steel sheet pile, cellular breasting dolphins in line with face.

DESCRIPTION	Face	Ends		Face	Ends		Face	Sides	
Dimensions (Feet)	40	15, each		100	40, each		140	40, each	
Depth Alongside at MLT Do.	12-15	-		14	-		36	-	
Breasting Distance Do.	150 w/dlph	-		500	-		400 w/dlph	-	
Total Berthing Space Do.	150 w/dlph	-		500	-		400 w/dlph	-	
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	8			12			19		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One 2-ton, hydraulic crane with a 37-foot telescopic boom for handling hose.	Two 2-ton, hydraulic cranes, each with 37-foot, telescopic boom for handling hose.	Two 2-ton, hydraulic cranes, each with 37-foot telescopic boom for handling hose.
RAILWAY CONNECTIONS	Two surface tracks serve tank car loading rack at terminal in rear; connect with tracks of Southern Pacific Transportation Co.	Two surface tracks serve tank car loading rack at terminal in rear; connect with tracks of Southern Pacific Transportation Co.	Two surface tracks serve tank car loading rack at terminal in rear; connect with tracks of Southern Pacific Transportation Co.
HIGHWAY CONNECTIONS	Via plant road, paved, from Clinton Drive, concrete, 36 feet wide.	Via plant road, paved, from Clinton Drive, concrete, 36 feet wide.	Via plant road, paved, from Clinton Drive, concrete, 36 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 2-inch line.	Through 4-inch line with 2-inch connection.	Through 4-inch line with 2-inch connection.
ELECTRIC POWER (Available to Vessels)	A.C., 460 volts.	A.C., 460 volts.	A.C., 440 volts.
FIRE PROTECTION (Other than City)	Monitors, pump, portable foam generator, chemical carts, hand extinguishers, and security patrol.	Monitors, pump, portable foam generator, chemical carts, hand extinguishers, and security patrol.	Monitors, pump, portable foam generator, chemical carts, hand extinguishers, and security patrol.
REMARKS	One 8- and five 6-inch pipelines extend from wharf to tankage described under Ref. No. 111. One 3-inch steam and one 2-inch compressed air lines serve wharf.	Nine 12-, forty-seven 8-, and five 6-inch pipelines extend from wharf to tankage described under Ref. No. 111. One 6-inch steam, one 2-inch compressed air, and one 2-inch nitrogen lines serve wharf.	One 16-, eight 12-, twenty-two 8-, and four 6-inch pipelines extend from wharf to tankage described under Ref No. 111. One 6-inch steam, one 2-inch compressed air, and one 2-inch nitrogen lines serve wharf.

Corps of Engineers Port Code No.	60370		Dock Code No. 344
REFERENCE NUMBER ON MAP NO. 3	115		
NAME	Paktank Corp., Galena Park Terminal Dock.		
LOCATION ON WATERFRONT	Galena Park, left bank Houston Ship Channel, approximately 1,500 feet below foot of South Main Street extended. 1600 Clinton Drive		
OWNED BY	Paktank Corp.		
OPERATED BY	Paktank Corp.		
PURPOSE FOR WHICH USED	Receipt and shipment of miscellaneous bulk liquids, including petroleum products, petrochemicals, and vegetable oils.		
TYPE OF CONSTRUCTION	Concrete pile, concrete-decked wharf extending from concrete-capped, steel sheet pile bulkhead with solid fill; 5 steel and 1 timber breasting dolphins in line with face.		
DESCRIPTION	Face	Lower side	Upper side
Dimensions (Feet)	70	25	25
Depth Alongside at MLT Do.	34-36	4-9	-
Breasting Distance Do.	390 w/dlph	-	-
Total Berthing Space Do.	390 w/dlph	-	-
Width of Apron Do.	Open.		
Height of Deck at MLT Do.	7		
Load Capacity (Lbs per Sq. Ft.)	-		
Lighted or Unlighted	Lighted.		
TRANSIT SHEDS Number and Description	None.		
Length and Width (Feet)			
Height Inside Do.			
Floor Area for Cargo (Sq. Ft.)			
Load Capacity (Lbs. per Sq. Ft.)			
Cargo Doors			
MECHANICAL HANDLING FACILITIES	One 2-ton, hydraulic crane with telescopic boom for handling hose.		
RAILWAY CONNECTIONS	Two surface tracks along shore parallel to wharf join two surface tracks at loading rack and additional trackage serving plant in rear; connect with Southern Pacific Transportation Co		
HIGHWAY CONNECTIONS	Via private road, asphalt, 20 feet wide, from foot of Woolf Street, concrete, 36 feet wide, and Clinton Drive, concrete, 40 feet wide.		
WATER SUPPLY (Available to Vessels)	Through 4-inch line with 2 1/2-inch connection.		
ELECTRIC POWER (Available to Vessels)	A.C., 440 volts.		
FIRE PROTECTION (Other than City)	Fire truck, pumps, chemical cart, foam trailer, hand extinguishers, and security patrol.		
REMARKS	One 12-, one 10-, one 8-, twenty-one 6-, and one 3-inch pipelines extend from wharf to 80 steel storage tanks at terminal in rear, total capacity 936,000 barrels. Building in rear serves as a drumming facility.		

Corps of Engineers Port Code No.	60370		Dock Code No. 346
REFERENCE NUMBER ON MAP NO. 3	116		
NAME	International Terminal Corp., Berth No. 1.		
LOCATION ON WATERFRONT	Galena Park, left bank Houston Ship Channel, approximately 800 feet below the foot of South Main Street extended. 1606 Clinton Drive		
OWNED BY	International Terminal Corp.		
OPERATED BY	International Terminal Corp.		
PURPOSE FOR WHICH USED	Receipt and shipment of conventional, roll-on roll-off, and containerized general cargo in foreign and domestic trade.		
TYPE OF CONSTRUCTION	Steel sheet pile bulkhead with concrete surfaced solid fill, fronted by concrete walls and concrete deck; timber pile turning dolphin in line with upper 85-foot section of face.		
DESCRIPTION	Face	Lower side	
Dimensions (Feet)	595+85	60	
Depth Alongside at MLT Do.	42	-	
Breasting Distance Do.	680 w/dlph	-	
Total Berthing Space Do.	680 w/dlph	-	
Width of Apron Do.	70 and open.		
Height of Deck at MLT Do.	20		
Load Capacity (Lbs per Sq. Ft.)	500		
Lighted or Unlighted	Lighted.		
TRANSIT SHEDS Number and Description	Use of transit sheds serving Ref. No. 117		
Length and Width (Feet)			
Height Inside Do.			
Floor Area for Cargo (Sq. Ft.)			
Load Capacity (Lbs. per Sq. Ft.)			
Cargo Doors			
MECHANICAL HANDLING FACILITIES	Three 300-ton, diesel, mobile cranes, each with 200-foot boom, and four 42.5-, one 26-, one 25-, eight 15-, three 7 1/2-, and twenty-five 2 1/2-ton diesel forklift trucks.		
RAILWAY CONNECTIONS	Four surface tracks on apron join additional trackage serving terminal in rear; connect with tracks of Southern Pacific Transportation Co.		
HIGHWAY CONNECTIONS	Via driveway, various widths, through paved yard, from Clinton Drive, concrete, 40 feet wide.		
WATER SUPPLY (Available to Vessels)	Through 8-, 6-, and 2 1/2-inch lines with 2 1/2-inch connections.		
ELECTRIC POWER (Available to Vessels)	None.		
FIRE PROTECTION (Other than City)	Fire truck, hydrants, hose, hand extinguishers, fireboat connections, and security patrol.		
REMARKS	Fifteen acres of open storage area at rear have capacity for 1,300 stacked containers; an additional 4 acres of open storage area at terminal is used for storing conventional general cargo.		

Corps of Engineers Port Code No.	60370		Dock Code No. 346
REFERENCE NUMBER ON MAP NO. 3	117		
NAME	International Terminal Corp., Berth Nos. 2 and 3.		
LOCATION ON WATERFRONT	Galena Park, left bank Houston Ship Channel, east side of slip, approximately 700 feet below foot of South Main Street extended. 1606 Clinton Drive		
OWNED BY	International Terminal Corp.		
OPERATED BY	International Terminal Corp.		
PURPOSE FOR WHICH USED	Receipt and shipment of conventional, roll-on roll-off, and containerized general cargo, and vegetable oil in foreign and domestic trade; shipment of steel, and bulk and bagged grain.		
TYPE OF CONSTRUCTION	East side: concrete pile and lateral concrete wall-supported, concrete-decked wharf; fronting steel sheet pile bulkhead with solid fill; rubber fender system along face. Head of slip: steel sheet pile bulkhead with solid fill.		
DESCRIPTION	East side	Head of slip	
Dimensions (Feet)	1,250	190	
Depth Alongside at MLT Do.	38	38	
Breasting Distance Do.	1,250w/dlph	-	
Total Berthing Space Do.	1,250w/dlph	-	
Width of Apron Do.	70		
Height of Deck at MLT Do.	20		
Load Capacity (Lbs per Sq. Ft.)	500		
Lighted or Unlighted	Lighted.		
TRANSIT SHEDS Number and Description	One - two sections - steel frame, metal-covered; concrete floor.		
	Section 1	Section 2.	
Length and Width (Feet)	840 by 106	741 by 106	
Height Inside Do.	19 to 41 ctr	19 to 41 ctr	
Floor Area for Cargo (Sq. Ft.)	136,200 total		
Load Capacity (Lbs. per Sq. Ft.)	-		
Cargo Doors	Shipside: eleven; each end: two; rear: five; all are 19 by 19.		
MECHANICAL HANDLING FACILITIES	Use of equipment described under Ref. No. 116.		
RAILWAY CONNECTIONS	Four surface tracks on apron join additional trackage serving terminal in rear; connect with tracks of Southern Pacific Transportation Co.		
HIGHWAY CONNECTIONS	Via driveway, various widths, through paved yard, from Clinton Drive, concrete, 40 feet wide.		
WATER SUPPLY (Available to Vessels)	Through 8-, 6-, and 2 1/2-inch lines with 2 1/2-inch connections.		
ELECTRIC POWER (Available to Vessels)	None.		
FIRE PROTECTION (Other than City)	Fire truck, hydrants, hose, hand extinguishers, fireboat connections, and security patrol.		
REMARKS	Two 6-inch vegetable oil extend from east side (Berth No. 2) to 11 steel storage tanks, total capacity 3,628,800 gallons. Head of slip (Berth No. 3) is used for handling roll-on roll-off general cargo.		

Corps of Engineers Port Code No.	60370 Dock Code No. 346	60370 Dock Code No. 349	60370 Dock Code No. 352
REFERENCE NUMBER ON MAP NO. 3	118	119	120
NAME	International Terminal Corp., Grain Wharf.	United States Gypsum Co. Houston Plant Wharf.	Arrow Terminals, Galena Park Dock.
LOCATION ON WATERFRONT	Galena Park, left bank Houston Ship Channel, approximately 400 feet below foot of South Main Street extended. 1606 Clinton Drive	Galena Park, left bank Houston Ship Channel, approximately 600 feet above foot of South Main Street extended. 1201 Mayo Shell Road	Galena Park, left bank Houston Ship Channel, approximately 0.4 mile above foot of South Main Street extended. 920 Mayo Shell Road
OWNED BY	International Terminal Corp.	United States Gypsum Co.	Dravo Basic Materials Co., Inc.
OPERATED BY	International Terminal Corp.	United States Gypsum Co.	Arrow Terminals and Dravo Basic Materials Co., Inc.
PURPOSE FOR WHICH USED	Shipment of grain by vessel.	Receipt of gypsum rock by self-unloading vessels.	Receipt and shipment of crushed stone, ferroalloys, and steel products.
TYPE OF CONSTRUCTION	Concrete and steel pile, concrete-decked offshore wharf with walkway approach; three 25- by 32-foot concrete pile, concrete-decked breasting platforms in line with face; connected by catwalks.	Two timber pile, concrete-decked offshore breasting platforms spaced 185 feet apart each with 85-foot approach; concrete mooring dolphin and receiving hopper platform on lower side and concrete mooring dolphin on upper side; all connected by catwalks.	Natural bank with shore moorings.
DESCRIPTION	Face	Breasting dolphins	Face
Dimensions (Feet)	415	23 by 30, ea	1,200
Depth Alongside at MLT Do.	42	32	32
Breasting Distance Do.	650 w/plat	600	1,200
Total Berthing Space Do.	650	600	1,200
Width of Apron Do.	-	Open.	Open.
Height of Deck at MLT Do.	22	12	10
Load Capacity (Lbs per Sq. Ft.)	-	-	-
Lighted or Unlighted	Lighted.	Lighted	Unlighted.
MECHANICAL HANDLING FACILITIES	Grain gallery with two 54-inch wide, electric belt conveyors, capacity 60,000 bushels per hour each, extends along rear of face. Three grain loading spouts serve gallery, each being suspended from a telescopic, horizontal, swinging boom on elevated steel tower; booms swing 180 degrees and have outboard reach of 80 feet; combined loading rate 120,000 bushels per hour.	Self unloading vessels discharge into a 6-cubic yard receiving hopper served by a 48/42-inch covered belt-conveyor system extending to steel frame storage building with asbestos-cement siding; rate 1,000 tons per hour. Bulldozers recover material to two ground level hoppers, each served by a 30-inch electric belt conveyor extending to wallboard plant in rear.	One diesel crawler crane with 90-foot boom and 5-cubic yard bucket; unloading rate 300 tons per hour. Two 7-cubic yard, diesel front-end loaders serve open storage area.
RAILWAY CONNECTIONS	Three surface tracks, each serving a hopper car receiving pit are joined by one surface track and additional terminal trackage connecting with tracks of Southern Pacific Transportation Co.	Trackage serving plant in rear connects with tracks of Southern Pacific Transportation Co.	Two surface tracks in rear connect with tracks of Southern Pacific Transportation Co.
HIGHWAY CONNECTIONS	Via driveway, various widths, through paved yard, from Clinton Drive, concrete, 40 feet wide.	Via private driveway, various widths, from Mayo Shell Road, asphalt, 24 feet wide, and Clinton Drive, concrete, 40 feet wide.	Via private driveway, various widths, from Mayo Shell Road, asphalt, 24 feet wide, and Clinton Drive, concrete, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through 6-inch line with 2 1/2-inch connections.	Through 2-inch line with 1 1/2-inch hose connections.	Through 2-inch line.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 440 volts.	None.
FIRE PROTECTION (Other than City)	Fire truck, hydrants, hose, hand extinguishers, fireboat connections, and security patrol.	Hydrants, hand extinguishers, and security patrol.	Hand extinguishers.
REMARKS	Grain elevator in rear with 56 concrete silos and 6 steel storage tanks has total capacity for 6,300,000 bushels.	Storage building has capacity for 40,000 tons of gypsum rock.	Open storage area at rear has capacity for 50,000 tons.

Corps of Engineers Port Code No.	60370 Dock Code No. 352	60370 Dock Code No. 357	60370 Dock Code No. 357
REFERENCE NUMBER ON MAP NO. 3	121	122	123
NAME	Dravo Basic Materials Co. Wharf.	Ideal Basic Industries, Clinton Wharf.	Southern Pacific Transportation Co. Clinton Wharf.
LOCATION ON WATERFRONT	Galena Park, left bank Houston Ship Channel, lower end of slip, approximately 0.5 mile above foot of South Main Street extended. 920 Mayo Shell Road	Galena Park, left bank Houston Ship Channel, inner end of slip, approximately 0.5 mile above foot of South Main Street extended. Clinton Drive	Galena Park, left bank of Houston Ship Channel, upper side of slip, approximately 0.5 mile above foot of South Main Street extended. Clinton Drive
OWNED BY	Dravo Basic Materials Co., Inc.	Ideal Basic Industries, Inc., Cement Division.	Southern Pacific Transportation Co.
OPERATED BY	Dravo Basic Materials Co., Inc.	Ideal Basic Industries, Inc., Cement Division.	Southern Pacific Transportation Co.
PURPOSE FOR WHICH USED	Receipt of crushed stone and sand by barge.	Receipt and shipment of bulk cement by barge.	Mooring vessels and barges, occasional receipt of bulk cement.
TYPE OF CONSTRUCTION	Part timber and part steel sheet pile bulkhead with solid fill.	Concrete bulkhead with concrete-surfaced solid fill on relieving platform supported by concrete piles; fronted by timber fender system.	Wharf extension consisting of timber piles, capped at wharf level by concrete beams supporting concrete walls with concrete deck fronting part timber and part concrete retaining walls with solid fill.
DESCRIPTION	Face	Face	Face
Dimensions (Feet)	600	705	825
Depth Alongside at MLT Do.	6-12	6-12	12-32
Breasting Distance Do.	600	700	825
Total Berthing Space Do.	600	700	825
Width of Apron Do.	Open.	Open.	25
Height of Deck at MLT Do.	9	6	17
Load Capacity (Lbs per Sq. Ft.)	-	-	-
Lighted or Unlighted	Unlighted.	Lighted.	Partly lighted.
MECHANICAL HANDLING FACILITIES	One diesel crawler crane with 90-foot boom and 5-cubic yard bucket; unloading rate 300 tons per hour. Two 7-cubic yard, diesel front-end loaders load material into trucks for transport to asphalt plant in rear.	Cantilever boom extending over berth from loading tower on wharf supports 4 flexible hoses for loading and unloading barges; rate 380-480 tons per hour.	None.
RAILWAY CONNECTIONS	Two surface tracks in rear connect with tracks of Southern Pacific Transportation Co.	None.	Southern Pacific Transportation Co. trackage serves area in rear.
HIGHWAY CONNECTIONS	Via private driveway, various widths, from Mayo Shell Road, asphalt, 24 feet wide, and Clinton Drive, concrete, 40 feet wide.	Via driveway, concrete, 20 feet wide, from public road, concrete, 40-20 feet wide, from Clinton Drive, concrete, 50 feet wide.wide.	Via road, concrete, 20-40 feet wide, from Clinton Drive, concrete, 50 feet wide.
WATER SUPPLY (Available to Vessels)	Through 2-inch line.	None.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Hand extinguishers.	Pumps, hand extinguishers, and security patrol.	None.
REMARKS	Open storage area at rear extends to rear of adjacent facility Ref. No. 120.	Four 12- and one 8-inch pneumatic pipelines extend to unloading tower on wharf from 25 cement storage silos and 16 interstices at plant in rear, total capacity 82,900 tons. Two 12-inch pneumatic pipelines extend from wharf to Ref. No. 123.	Two 12-inch pneumatic pipelines extend to wharf from Ref. No. 122 for occasional receipt of bulk cement by vessel.

Corps of Engineers Port Code No.	60270 Dock Code No. 360	60270 Dock Code No. 365	60270 Dock Code No. 365
REFERENCE NUMBER ON MAP NO. 3	124	125	126
NAME	USX Corp. Houston Barge Slip.	U.S. Coast Guard Houston Ship Channel Wharf.	Port of Houston, Small Boat Moorings.
LOCATION ON WATERFRONT	Galena Park, left bank Houston Ship Channel, approximately 0.9 mile above foot of South Main Street extended. 9500 Clinton Drive	Left bank, Houston Ship Channel, approximately 0.6 mile below East Loop Freeway (Interstate Highway 610) Bridge. 9640 Clinton Drive	Left bank, Houston Ship Channel, approximately 0.4 mile below East Loop Freeway (Interstate Highway 610) Bridge. Clinton Dr.
OWNED BY	USX Realty Development, Division of United States Steel Corp.	United States Government.	Port of Houston Authority.
OPERATED BY	Not operated.	U. S. Coast Guard.	Not operated.
PURPOSE FOR WHICH USED	Not used.	Mooring U.S. Coast Guard vessels.	Not used.
TYPE OF CONSTRUCTION	Covered barge slip with steel sheet pile bulkhead, solid fill, along lower side.	Six parallel, concrete pile, concrete and timber-decked piers, extending from part steel sheet pile and part concrete bulkhead with solid fill.	Four parallel, timber pile, timber-decked, offshore piers extending from offshore timber connecting walkway; 65- by 5-foot timber approach extends to center of connecting walkway from a 18- by 10-foot timber platform on shore.
DESCRIPTION	Barge slip	6 piers	4 piers
Dimensions (Feet)	590 by 59	55 by 6, ea.	65 by 5, ea.
Depth Alongside at MLT Do.	12	9	8
Breasting Distance Do.	290	110, each	130, each
Total Berthing Space Do.	290	660	520, total
Width of Apron Do.	Open.	6 and open	Open.
Height of Deck at MLT Do.	20	2	2
Load Capacity (Lbs per Sq. Ft.)	-	-	-
Lighted or Unlighted	Partly lighted.	Lighted.	Unlighted.
MECHANICAL HANDLING FACILITIES	Two 10-, and one 15-ton, electric, traveling, overhead cranes extend from interior of plant over barge slip.	One 7.5-ton, electric, traveling, vertical boat lift located at lower berth is used for launching small vessels.	One 2-ton chain hoist mounted on monorail located at upper pier used for hauling out vessels.
RAILWAY CONNECTIONS	Three surface tracks in rear of lower side of barge slip inside plant building; connect with Port Terminal Railroad and tracks of Southern Pacific Transportation Co.	None.	None.
HIGHWAY CONNECTIONS	Via Johnson Landing Road, concrete, 20 feet wide, from Clinton Drive, concrete, 80 feet wide.	Via road, concrete, 30 feet wide, from Clinton Drive, concrete, 80 feet wide.	Via private road, concrete, 30 feet wide, from Clinton Drive, concrete, 80 feet wide.
WATER SUPPLY (Available to Vessels)	None.	Through 2-inch line with 3/4-inch connections.	None.
ELECTRIC POWER (Available to Vessels)	A.C., 110/220/440 volts	A.C., 110/220/440 volts.	None.
FIRE PROTECTION (Other than City)	Hydrants, hose, and hand extinguishers.	Chemical carts, fireboat connections, hydrants, hose, and hand extinguishers.	None.
REMARKS	Additional 250 feet of berthing space is available alongside timber mooring dolphins fronting an abandoned timber pile, timber-decked, offshore wharf with curved approach located below entrance to slip.	Finger piers form five 18- by 55-foot covered and one open slip; vertical boat lift located at open slip. Diesel fueling lines extend to lower pier from one 2,000-gallon storage tank to pier. Captain of the Port office and Port Safety Station are located in building at rear.	Piers form two 18- by 65-foot open and one covered slip; mooring dolphins parallel to sides of upper and lower piers form 2 additional slips.

Corps of Engineers Port Code No.	60370 Dock Code No. 368		60370 Dock Code No. 377	60370 Dock Code No. 377
REFERENCE NUMBER ON MAP NO. 3	127		128	129
NAME	Port of Houston, Dickson Industrial District Wharf.		Port of Houston, Public Wharf No. 32.	Port of Houston, Public Wharves Nos. 30 and 31.
LOCATION ON WATERFRONT	Left bank, Houston Ship Channel, approximately 0.4 mile below East Loop Freeway (Interstate Highway 610) Bridge. Port Road from Clinton Drive		Left bank, Houston Ship Channel, adjacent to lower side of East Loop Freeway (Interstate Highway 610) Bridge. Port Road and Clinton Drive	Left bank of Houston Ship Channel, adjacent to upper side of East Loop Freeway (Interstate Highway 610) Bridge. Port Road and Clinton Drive
OWNED BY	Port of Houston Authority.		Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Not operated.		Port of Houston Authority.	Port of Houston Authority.
PURPOSE FOR WHICH USED	Not used.		Receipt of automobiles and shipment of general cargo in foreign and domestic trade.	Receipt and shipment of general cargo in foreign and domestic trade.
TYPE OF CONSTRUCTION	Timber pile, timber-decked, offshore wharf with 80- by 15-foot timber approach; timber breasting dolphins in line with face.		Reinforced concrete piles, concrete cross beams supporting concrete walls and concrete deck fronting steel sheet pile bulkhead with solid fill; timber fender system along face.	Reinforced concrete piles, concrete cross beams supporting concrete walls and concrete deck; wharf extends from steel sheet pile bulkhead with solid fill; timber fender system along face.
DESCRIPTION	Face	Sides	Face	Face
Dimensions (Feet)	100	20, each	800	1,176
Depth Alongside at MLT Do.	30	-	38	38
Breasting Distance Do.	250 w/dlph	-	800	1,176
Total Berthing Space Do.	250	-	800	1,176
Width of Apron Do.	Open.		Open.	60
Height of Deck at MLT Do.	10		15.8	15.8
Load Capacity (Lbs per Sq. Ft.)	-		1,000	750
Lighted or Unlighted	Unlighted.		Lighted.	Lighted.
TRANSIT SHEDS Number and Description	None.		None.	One-steel frame, metal-covered; concrete floor.
Length and Width (Feet)				1,058x200
Height Inside Do.				22-23
Floor Area for Cargo (Sq. Ft.)				141,067
Load Capacity (Lbs. per Sq. Ft.)				750
Cargo Doors				Shipside: twelve, 14 by 14, and three, 20 by 18; rear: fourteen, 14 by 14, and one, 20 by 18; each end: two, 14 by 14, and one 20 by 18.
MECHANICAL HANDLING FACILITIES	None.		Stevedore equipment available at all Port of Houston Public Wharves: One 150-, four 80-, and two 90-ton, diesel mobile cranes each with 100-foot boom, and approximately 40 mobile cranes with capacity ranging from 80- to 300 tons.	The Port of Houston Authority owns and operates the following equipment available for use at Wharves Nos. 23 through 31 (Ref. Nos. 129 through 134, respectively): One 40-ton, diesel-electric, traveling, full-portal, container crane with hinged boom having an outboard reach of 113 feet and a back reach of 30 feet; and one 30-ton, diesel-electric, traveling, full-portal, revolving gantry crane with 100-foot boom; and has use of equipment described under Ref. No. 128.
RAILWAY CONNECTIONS	None.		Port Terminal Railroad: One surface track on apron joins with additional trackage in rear.	Port Terminal Railroad: Three surface tracks on apron and 2 platform-level tracks along rear of transit shed join with additional terminal trackage.
HIGHWAY CONNECTIONS	None.		Via port roads, concrete, 33-40 feet wide, from Interstate Highway 610 (East Loop Freeway).	Via port roads, concrete, 33-40 feet wide, from Interstate Highway 610 (East Loop Freeway).
WATER SUPPLY (Available to Vessels)	None.		Through one 8-inch line with 2-inch metered hose connections.	Through 8-inch line with 2-inch connections.
ELECTRIC POWER (Available to Vessels)	None.		A.C., 120/240/440 volts.	A.C., 120/240 volts, single-phase; A.C., 440 volts, 3-phase.
FIRE PROTECTION (Other than City)	None.		Hydrants, hose, hand extinguishers, and security patrol.	Hydrants, hose, hand extinguishers, and security patrol.
REMARKS	-		Approximately 18 acres open storage area is located at rear.	Transit shed is divided into 2 sections. Trucks have access to wharf apron and to interior of transit shed. Paved roadway along rear of transit shed is a continuation of roadway along rear of adjacent wharf (Ref. No. 130). Approximately 5 acres of open storage area is located at rear.

Corps of Engineers Port Code No.	40370 Dock Code No. 379	40370 Dock Code No. 382	40370 Dock Code No. 381
REFERENCE NUMBER ON MAP NO. 3	130	131	132
NAME	Port of Houston, Public Wharf No. 29.	Port of Houston, Public Wharves Nos. 27 and 28.	Port of Houston, Public Wharf No. 26.
LOCATION ON WATERFRONT	Left bank, Houston Ship Channel, approximately 1,220 feet above East Loop Freeway (Interstate Highway 610) Bridge. Port Road and Clinton Drive.	Left bank, Houston Ship Channel, approximately 1,820 feet above East Loop Freeway (Interstate Highway 610) Bridge. Port Road.	Left bank, Houston Ship Channel, approximately 0.6 mile above East Loop Freeway (Interstate Highway 610) Bridge. Port Road.
OWNED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
PURPOSE FOR WHICH USED	Receipt and shipment of conventional and containerized general cargo in foreign and domestic trade.	Receipt and shipment of general cargo in foreign and domestic trade.	Receipt and shipment of conventional and containerized general cargo in foreign and domestic trade.
TYPE OF CONSTRUCTION	Reinforced concrete piles, concrete cross beams supporting concrete walls and concrete deck fronting steel sheet pile bulkhead with solid fill; timber fender system along face.	Reinforced concrete piles, concrete cross beams supporting concrete walls and concrete deck; fronting steel sheet pile bulkhead with solid fill; timber fender system along face.	Reinforced concrete piles, concrete cross beams supporting concrete walls and concrete deck fronting steel sheet pile bulkhead with solid fill; timber fender system along face.
DESCRIPTION	Face	Face	Face
Dimensions (Feet)	600	1,200	600
Depth Alongside at MLT Do.	38	38	38
Breasting Distance Do.	600	1,200	600
Total Berthing Space Do.	600	1,200	600
Width of Apron Do.	Open.	60	Open.
Height of Deck at MLT Do.	15.8	15.8	15.8
Load Capacity (Lbs per Sq. Ft.)	750	750	750
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
TRANSIT SHEDS Number and Description	None.	One - steel frame, metal-covered; concrete floor.	None.
Length and Width (Feet)		1,082x200	
Height Inside Do.		22-23	
Floor Area for Cargo (Sq. Ft.)		144,270	
Load Capacity (Lbs. per Sq. Ft.)		750	
Cargo Doors		Shipside: fourteen, 14 by 14, and two, 20 by 18; rear: fourteen, 14 by 14, and two 20 by 18; each end: two 14 by 14, and one, 20 by 18.	
MECHANICAL HANDLING FACILITIES	Use of 40-ton container crane, 30-ton gantry crane, and stevedore equipment described under Ref. Nos. 128 and 129.	Use of 40-ton container crane, 30-ton gantry crane, mobile cranes, and stevedore equipment described under Ref. Nos. 128 and 129.	Use of 40-ton container crane, 30-ton gantry crane, mobile cranes, and stevedore equipment described under Ref. Nos. 128 and 129.
RAILWAY CONNECTIONS	Port Terminal Railroad: Three surface tracks on apron join with additional terminal trackage in rear.	Port Terminal Railroad: Three surface tracks on apron and 2 platform-level tracks along rear of transit shed join additional terminal trackage in rear.	Port Terminal Railroad: Three surface tracks on apron join additional terminal trackage in rear.
HIGHWAY CONNECTIONS	Via port roads, concrete, 33-40 feet wide, from Interstate Highway 610 (East Loop Freeway).	Via port roads, concrete, 44-30 feet wide, from Interstate Highway 610 (East Loop Freeway).	Via port roads, concrete, 44-30 feet wide, from Interstate Highway 610 (East Loop Freeway).
WATER SUPPLY (Available to Vessels)	Through one 8-inch line with 2-inch metered hose connections.	Through 8-inch line with 2-inch connections.	Through 8-inch line with 2-inch connections.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 120/240/440 volts.	None.
FIRE PROTECTION (Other than City)	Hydrants at rear of service road, and security patrol.	Hydrants, hose, hand extinguishers, and security patrol.	Hydrants in rear and security patrol.
REMARKS	Paved roadway along rear of wharf is a continuation of roadway along rear of transit sheds on adjacent wharves (Ref. Nos. 129 and 131). Trucks have access to open wharf. Approximately 1.4 acres of open storage area is located on wharf and 3.7 acres of additional open storage area is located at rear.	Transit shed is divided into 2 sections. Port of Houston terminal office is located in rear of Wharf No. 27. Trucks have access to wharf apron and to interior of transit shed. Paved roadway along rear of transit shed is a continuation of roadway along rear of adjacent wharves (Ref. Nos. 130 and 132).	Approximately 2.2 acres of concrete-paved, open storage area on wharf. Trucks have access to open wharf. Paved roadway along rear of wharf is a continuation of roadway along rear of transit sheds on adjacent wharves (Ref. Nos. 131 and 133).

Corps of Engineers Port Code No.	60370 Dock Code No. 385	60370 Dock Code No. 387	60370 Dock Code No. 389
REFERENCE NUMBER ON MAP NO. 3	133	134	135
NAME	Port of Houston, Public Wharves Nos. 24 and 25.	Port of Houston, Public Wharf No. 23.	Port of Houston, Public Wharves Nos. 21 and 22.
LOCATION ON WATERFRONT	Left bank, Houston Ship Channel, approximately 0.7 mile above East Loop Freeway (Interstate Highway 610) Bridge. Port Road.	Left bank, Houston Ship Channel, approximately 0.9 mile above East Loop Freeway (Interstate Highway 610) Bridge. Port Road.	Left bank, Houston Ship Channel, approximately one mile above East Loop Freeway (Interstate Highway 610) Bridge. Port Road.
OWNED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
PURPOSE FOR WHICH USED	Receipt and shipment of general cargo in foreign and domestic trade.	Receipt and shipment of conventional and containerized general cargo in foreign and domestic trade.	Receipt and shipment of general cargo in foreign and domestic trade.
TYPE OF CONSTRUCTION	Reinforced concrete piles, concrete cross beams supporting concrete walls and concrete deck fronting steel sheet pile bulkhead with solid fill; timber fender system along face.	Reinforced concrete piles, concrete cross beams supporting concrete walls and concrete deck fronting steel sheet pile bulkhead with solid fill; timber fender system along face.	Reinforced concrete piles, concrete cross beams supporting concrete walls and concrete deck; wharf extends from steel sheet pile bulkhead with solid fill; timber fender system along face.
DESCRIPTION	Face	Face	Face
Dimensions (Feet)	1,200	600	1,200
Depth Alongside at MLT Do.	38	38	38
Breasting Distance Do.	1,200	600	1,200
Total Berthing Space Do.	1,200	600	1,200
Width of Apron Do.	56	Open.	56
Height of Deck at MLT Do.	15.8	15.8	15.8
Load Capacity (Lbs per Sq. Ft.)	750	750	750
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
TRANSIT SHEDS Number and Description	One - Steel frame, metal-covered; concrete floor.	None.	One-steel frame, truss roof, metal covered; concrete floor.
Length and Width (Feet)	1082 by 200		1080 by 200
Height Inside Do.	20-25.5		20x40
Floor Area for Cargo (Sq. Ft.)	144,000		144,400
Load Capacity (Lbs. per Sq. Ft.)	750		600
Cargo Doors	Shipside: fifteen, 14 by 14, and one, 20 by 18; rear: fifteen, 14 by 14, and one, 20 by 18; each end: two, 14 by 14, and one, 20 by 18.		Shipside: twenty-five, 17 by 14, and one, 17 by 18; rear: twenty-six, 17 by 14; each end: two, 17 by 14, and one, 20 by 18.
MECHANICAL HANDLING FACILITIES	Use of 40-ton container crane, 30-ton gantry crane, mobile cranes, and stevedore equipment described under Ref. Nos. 128 and 129.	Use of 40-ton container crane, 30-ton gantry crane, mobile cranes, and stevedore equipment described under Ref. Nos. 128 and 129.	Use of mobile cranes and stevedore equipment described under Ref. No. 128 and 129.
RAILWAY CONNECTIONS	Port Terminal Railroad: Three surface tracks on apron and 2 platform-level tracks along rear of transit shed join additional terminal trackage in rear.	Port Terminal Railroad: Three surface tracks on apron join additional terminal trackage in rear.	Port Terminal Railroad: Three surface tracks on apron, and 2 platform-level tracks along rear of transit shed join additional terminal trackage in rear.
HIGHWAY CONNECTIONS	Via port roads, concrete, 44-30 feet wide, from Interstate Highway 610 (East Loop Freeway).	Via port roads, concrete, 33-40 feet wide, from Interstate Highway 610 (East Loop Freeway)	Via port roads, concrete, 33-40 feet wide, from Interstate Highway 610 (East Loop Freeway).
WATER SUPPLY (Available to Vessels)	Through 8-inch line with 2-inch connections.	Through 8-inch line with 2-inch connections.	Through 8-inch line with 2-inch connections.
ELECTRIC POWER (Available to Vessels)	A.C., 120/240/440 volts.	None.	A.C., 120/240 volts, single phase; A.C., 440 volts, 3-phase.
FIRE PROTECTION (Other than City)	Hydrants in rear and security patrol.	Hydrants in rear and security patrol.	Hydrants, hose, hand extinguishers, and security patrol.
REMARKS	Transit shed is divided into 2 sections. Approximately 2.1 acres of open storage area located in rear of Wharf No. 25. Warehouse 25-A (S.W. Ref. No. 3) is located at rear of Wharf No. 25. Trucks have access to wharf apron and to interior of transit shed. Paved roadway along rear of wharf is a continuation of roadway along rear of transit sheds on adjacent wharves (Ref. Nos. 132 and 134).	Approximately 2.2 acres of concrete-paved open storage area on wharf at rear. Trucks have access to open wharf. Paved roadway along rear of wharf is a continuation of roadway along rear of transit sheds on adjacent wharves (Ref. Nos. 133 and 135).	Transit shed is divided into 2 sections. Approximately 3.3 acres of open storage space at rear of Wharf No. 21. Warehouse 21-A (S.W. Ref. No. 4) is located at rear of Wharf No. 21. Trucks have access to wharf apron and to interior of transit shed. Paved roadway along rear of wharf is a continuation of roadway along rear of transit sheds on adjacent wharves (Ref. Nos. 134 and 136).

Corps of Engineers Port Code No.	60370 Dock Code No. 391	60370 Dock Code No. 393	60370 Dock Code No. 395
REFERENCE NUMBER ON MAP NO. 3	136	137	138
NAME	Port of Houston, Public Wharf No. 20	Port of Houston, Public Wharves Nos. 18 and 19.	Port of Houston, Public Wharf No. 17.
LOCATION ON WATERFRONT	Left bank, Houston Ship Channel, approximately 1.3 miles above East Loop Freeway (Interstate Highway 610) Bridge. Port Road.	Left bank, Houston Ship Channel, approximately 1.4 miles above East Loop Freeway (Interstate Highway 610) Bridge. Port Road.	Left bank, Houston Ship Channel, approximately 1.6 miles above East Loop Freeway (Interstate Highway 610) Bridge. Port Road.
OWNED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
PURPOSE FOR WHICH USED	Receipt and shipment of general cargo, including structural steel products, in foreign and domestic trade.	Receipt and shipment of general cargo in foreign and domestic trade.	Receipt and shipment of conventional and containerized general cargo in foreign and domestic trade.
TYPE OF CONSTRUCTION	Reinforced concrete pile, concrete-decked wharf; fronted by timber fender system. Piling is driven in solid fill behind a low-level, steel sheet pile bulkhead which supports lower part of timber fender system along face of wharf.	Reinforced concrete piles, concrete cross beams supporting concrete walls and concrete deck fronting steel sheet pile bulkhead with solid fill; timber fender system along face.	Reinforced concrete piles, concrete cross beams supporting concrete walls and concrete deck fronting combination steel sheet pile and concrete bulkhead with solid fill; timber fender system along face.
DESCRIPTION	Face	Face	Face
Dimensions (Feet)	600	1,177	600
Depth Alongside at MLT Do.	38	38	38
Breasting Distance Do.	600	1,177	600
Total Berthing Space Do.	600	1,177	600
Width of Apron Do.	Open.	52	Open.
Height of Deck at MLT Do.	15.8	15.8	15.8
Load Capacity (Lbs per Sq. Ft.)	600	600	500
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
TRANSIT SHEDS Number and Description	None.	One steel frame, metal-covered; concrete floor.	None.
Length and Width (Feet)		1,000x200	
Height Inside Do.		20	
Floor Area for Cargo (Sq. Ft.)		133,330	
Load Capacity (Lbs. per Sq. Ft.)		500	
Cargo Doors		Shipside: twenty-three, 14 by 14, and one, 14 by 17; rear: twenty-three, 14 by 14, and one, 17.3 by 18; each end: one, 14 by 14, and one, 18 by 20.	
MECHANICAL HANDLING FACILITIES	Use of mobile cranes and stevedore equipment described under Ref. No. 128 and 129.	Use of mobile cranes and stevedore equipment described under Ref. No. 128 and 129.	Use of mobile cranes and stevedore equipment described under Ref. No. 128 and 129.
RAILWAY CONNECTIONS	Port Terminal Railroad: Three surface tracks on apron join additional terminal trackage in rear.	Port Terminal Railroad: Three surface tracks on apron and 2 platform-level tracks along rear of transit shed join additional terminal trackage in rear.	Port Terminal Railroad: Two surface tracks on apron and 2 platform-level tracks at rear join additional terminal trackage in rear.
HIGHWAY CONNECTIONS	Via port roads, concrete, 33-40 feet wide, from Interstate Highway 610 (East Loop Freeway).	Via port roads, concrete, 30-44 feet wide, from Clinton Drive, dual lane, 24 and 20 feet wide, from Interstate Highway 610.	Via port roads, concrete, 30-44 feet wide, from Clinton Drive, dual lane, 24 and 20 feet wide, from Interstate Highway 610.
WATER SUPPLY (Available to Vessels)	Through 8-inch line with 2-inch connections.	Through 8-inch line with 2-inch connections.	Through 8-inch line with 2-inch connections.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 120/240/440 volts.	None.
FIRE PROTECTION (Other than City)	Hydrants at rear and security patrol.	Hydrants, hand extinguishers, and security patrol.	Hydrants at rear and security patrol.
REMARKS	Approximately 2.3 acres of concrete-paved, open storage area is located on wharf and an additional open storage area of 0.6 acre is located on up-land area at rear of wharf. Trucks have access to open wharf. Paved roadway along rear of wharf is a continuation of roadway along rear of transit sheds on adjacent wharves (Ref. Nos. 135 and 137).	One 5.3- and one 3.5-acre, open storage areas are located on wharf. Trucks have access to wharf apron and to interior of transit shed.	Approximately 1.7 acres of concrete-paved, open storage area on wharf. Trucks have access to open wharf.

Corps of Engineers Port Code No.	60370 Dock Code No. 396	60370 Dock Code No. 397	60370 Dock Code No. 398
REFERENCE NUMBER ON MAP NO. 3	139	140	141
NAME	Port of Houston, Public Wharf No. 16.	Port of Houston, Public Wharf No. 15.	Port of Houston, Public Wharf No. 14.
LOCATION ON WATERFRONT	Left bank, Houston Ship Channel, approximately 1.7 miles above East Loop Freeway (Interstate Highway 610) Bridge. Port Road.	Left bank, Houston Ship Channel, approximately 1.8 miles above East Loop Freeway (Interstate Highway 610) Bridge. Port Road.	Left bank, Houston Ship Channel, approximately 500 feet below entrance to Turning Basin. Port Road.
OWNED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
PURPOSE FOR WHICH USED	Receipt and shipment of conventional and containerized general cargo in foreign and domestic trade.	Receipt and shipment of general cargo in foreign and domestic trade.	Receipt and shipment of general cargo in foreign and domestic trade; shipment of grain.
TYPE OF CONSTRUCTION	Steel sheet pile, cellular bulkhead with concrete-surfaced solid fill; reinforced concrete piles support wharf deck between cells; timber fender system along face.	Wharf apron: concrete piles with concrete cross beams at low water level supporting concrete walls with concrete deck; under transit shed: concrete piles, supporting concrete columns with concrete deck; all extend from timber bulkhead with solid fill; rubber fender system along face.	Wharf apron: concrete piles with concrete cross beams at low water level supporting concrete walls with concrete deck; concrete capped, concrete piles supporting concrete deck at rear of apron; timber fender system along face.
DESCRIPTION	Face	Face	Face
Dimensions (Feet)	558+45	480	480
Depth Alongside at MLT Do.	38	34	34
Breasting Distance Do.	603	480 (See Remarks.)	480 (See Remarks.)
Total Berthing Space Do.	603	480	480
Width of Apron Do.	Open.	30	Open.
Height of Deck at MLT Do.	15.8	15.8	15.8
Load Capacity (Lbs per Sq. Ft.)	500	500	600
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
TRANSIT SHEDS Number and Description	None.	One - reinforced concrete walls; concrete roof; asphalt-surfaced concrete floor.	Use of transit shed described under Ref. No. 140.
Length and Width (Feet)		480 by 127-150	
Height Inside Do.		13-15	
Floor Area for Cargo (Sq. Ft.)		44,410	
Load Capacity (Lbs. per Sq. Ft.)		500	
Cargo Doors		Shipside: eight, 18 by 10; rear: nine, 12 by 10; each end: one 20 by 14.	
MECHANICAL HANDLING FACILITIES	Use of mobile cranes and stevedore equipment described under Ref. No. 128 and 129.	Use of mobile cranes and stevedore equipment described under Ref. Nos. 128 and 129. Grain gallery (with 8 vessel-loading spouts serving this wharf) extending full length of wharf from adjacent Public Wharf No. 14 (Ref. No. 141).	Use of mobile cranes, and stevedore equipment described under Ref. Nos. 128 and 129. Grain gallery extends along full length of Public Wharves Nos. 14 and 15 and has a total of 13 vessel-loading spouts (8 spouts on Wharf No. 15 and 5 spouts on Wharf No. 14), of which only 5 are in use, with a combined loading rate of 80,000 bushels per hour. (See Remarks.)
RAILWAY CONNECTIONS	Port Terminal Railroad: Two surface tracks on apron and 2 platform-level tracks at rear join additional terminal trackage in rear.	Port Terminal Railroad: Two surface tracks on apron and 2 platform-level tracks at rear join additional terminal trackage in rear.	Port Terminal Railroad: Two surface tracks on apron join additional terminal trackage in rear.
HIGHWAY CONNECTIONS	Via port roads, concrete, 30-44 feet wide, from Clinton Drive, dual lane, 24 and 20 feet wide, and from Interstate Highway 610.	Via port roads, concrete, various widths, from Clinton Drive, dual lane, 24 and 20 feet wide.	Via port roads, concrete, various widths, from Clinton Drive, dual lane, 24 and 20 feet wide.
WATER SUPPLY (Available to Vessels)	Through 8-inch line with 2-inch connections.	Through 8-inch line with 2-inch connections.	Through 8-inch line with 2-inch connections.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 120/240/440 volts.	A.C., 110/440 volts.
FIRE PROTECTION (Other than City)	Hydrants at rear and security patrol.	Hydrants, hose, hand extinguishers, and security patrol.	Hydrants and security patrol.
REMARKS	Approximately 1.8 acres of concrete-paved, open storage area on wharf. Trucks have access to open wharf.	Face of wharf is in line and contiguous with face of adjacent wharf (Ref. No. 141). Trucks have access to wharf apron and to interior of transit shed. Paved roadway along rear of transit shed is a continuation of roadway along rear of adjacent wharves (Ref. Nos. 139 and 141).	An elevated approach gallery, equipped with electric belt conveyors, extends from Port of Houston grain elevator in rear, total capacity 6,000,000 bushels. Trucks have access to open wharf. Face of wharf is in line and contiguous with faces of adjacent wharves (Ref. Nos. 140 and 142). Paved roadway along rear of transit shed is a continuation of roadway along rear of adjacent wharves (Ref. Nos. 140 and 142).

Corps of Engineers Port Code No.	60370 Dock Code No. 401	60370 Dock Code No. 402	60370 Dock Code No. 403
REFERENCE NUMBER ON MAP NO. 3	142	143	144
NAME	Port of Houston, Public Wharves Nos. 12 and 13.	Port of Houston, Public Wharf No. 11.	Port of Houston, Public Wharf No. 10.
LOCATION ON WATERFRONT	Left bank of Houston Ship Channel and northeast side of Turning Basin. Port Road.	Northeast side of Turning Basin. Port Road.	North side of Turning Basin. Port Road.
OWNED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
PURPOSE FOR WHICH USED	Receipt and shipment of general cargo in foreign and domestic trade.	Receipt and shipment of general cargo in foreign and domestic trade.	Receipt and shipment of general cargo in foreign and domestic trade.
TYPE OF CONSTRUCTION	Wharf apron: concrete piles with concrete cross beams at low water level supporting concrete walls with concrete deck; under transit shed: concrete columns with concrete deck; timber fender system along face.	Wharf apron: concrete piles with concrete cross beams at low water level supporting concrete walls with concrete deck; under transit shed: part concrete pile with concrete deck and part concrete-capped timber pile with concrete deck; timber fender system along face.	Wharf apron: concrete piles with concrete cross beams at low water level supporting concrete walls with concrete deck; under transit shed: part concrete pile with concrete deck and part concrete-capped timber pile with concrete deck; timber fender system along face.
DESCRIPTION	Face	Face	Face
Dimensions (Feet)	990	530	700
Depth Alongside at MLT Do.	33	33	33
Breasting Distance Do.	990	530	700
Total Berthing Space Do.	990	530	700
Width of Apron Do.	30	30	46 and open.
Height of Deck at MLT Do.	15.8	15.8	15.8
Load Capacity (Lbs per Sq. Ft.)	600	600	600
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
TRANSIT SHEDS Number and Description	One - part one-story steel frame, metal-covered and part 2-story concrete; concrete floor.	One - steel frame, metal-covered; concrete floor.	One - steel frame, metal-covered; concrete floor.
Length and Width (Feet)	460&480x127&150	482x128	582x125
Height Inside Do.	1st fl,24&14; 2d fl(See Remarks)	20	14
Floor Area for Cargo (Sq. Ft.)	1st fl, 86,828	41,115	48,460
Load Capacity (Lbs. per Sq. Ft.)	1st fl, 600 and 500	600 and 500	600 and 500
Cargo Doors	Shipside: thirteen, 18 by 12; rear: fourteen, 12 by 10; one, 19 by 12; south end: one 12 by 12; north end: one 20 by 14.	Shipside: eight, 14 by 14; rear: eight, 14 by 14; each end: one 18 by 20.	Shipside: eight, 12 by 10; rear: seven, 12 by 10; each end: one, 18 by 12.
MECHANICAL HANDLING FACILITIES	Use of mobile cranes and stevedore equipment described under Ref. No. 128. One 2-ton electric elevator located in 2-story section of transit shed on Wharf No. 13.	Use of mobile cranes and stevedore equipment described under Ref. No. 128.	Use of mobile cranes and stevedore equipment described under Ref. No. 128.
RAILWAY CONNECTIONS	Port Terminal Railroad: Two surface tracks on apron and 2 platform-level tracks along rear of transit shed join additional terminal trackage in rear.	Port Terminal Railroad: Two surface tracks on apron and 2 platform-level tracks along rear of transit shed join additional terminal trackage in rear.	Port Terminal Railroad: Two surface tracks on apron and 2 platform-level tracks along rear of transit shed join additional trackage in rear.
HIGHWAY CONNECTIONS	Via port roads, concrete, 30 and 36 feet wide, from Clinton Drive, concrete, 50 feet wide.	Via port roads, concrete, 30 and 36 feet wide, from Clinton Drive, concrete, 50 feet wide.	Via port roads, concrete, 30 and 36 feet wide, from Clinton Drive, concrete, 50 feet wide.
WATER SUPPLY (Available to Vessels)	Through 8-inch line with 2-inch connections.	Through 8-inch line with 2-inch connections.	Through 8-inch line with 2-inch connections.
ELECTRIC POWER (Available to Vessels)	A.C., 120/240/440 volts.	A.C., 120/240/440 volts.	A.C., 120/240/440 volts.
FIRE PROTECTION (Other than City)	Hydrants, hose, hand extinguishers, and security patrol.	Hydrants, hose, hand extinguishers, and security patrol.	Hydrants, hose, hand extinguishers, and security patrol.
REMARKS	Second floor of transit shed is used by Port of Houston for miscellaneous non-cargo storage. Trucks have access to wharf apron and to interior of transit shed. Face of wharf is in line and contiguous with faces of adjacent wharves (Ref. Nos. 141 and 143). Paved roadway along rear of transit shed is a continuation of roadway along rear of adjacent wharves (Ref. Nos. 141 and 143).	Trucks have access to wharf apron and to interior of transit shed. Face of wharf is in line and contiguous with faces of adjacent Wharves Nos. 12 and 13 (Ref. No. 142). Paved roadway along rear of transit shed is a continuation of roadway along rear of adjacent wharves (Ref. Nos. 142 and 144).	Trucks have access to wharf apron and to interior of transit shed. Paved roadway along rear of transit shed is a continuation of roadway along rear of adjacent Wharf No. 11 (Ref. No. 143). A 100-foot concrete rail trestle extends to upper side in line with face of wharf. A steel sheet pile bulkhead extends at right angle from upper end of trestle.

Corps of Engineers Port Code No.	60370 Dock Code No. 404	60370 Dock Code No. 405	60370 Dock Code No. 40
REFERENCE NUMBER ON MAP NO. 3	145	146	147
NAME	Exxon Chemical Co. Dock.	Port of Houston, Public Wharf No. 9.	Port of Houston, Public Wharf No.
LOCATION ON WATERFRONT	West end of north side of Turning Basin. Port Road.	North portion of west side of Turning Basin. Port Road.	South portion of west side of Turning Basin. Port Road.
OWNED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Port of Houston Authority and Exxon Chemical Co.	Port of Houston Authority.	Port of Houston Authority.
PURPOSE FOR WHICH USED	Mooring tugs and towboats; occasional receipt of petrochemicals by barge.	Receipt and shipment of general cargo in foreign and domestic trade.	Receipt and shipment of general cargo in foreign and domestic trade.
TYPE OF CONSTRUCTION	Concrete-capped, steel sheet pile bulkhead with solid fill.	Concrete retaining wall with concrete-surfaced solid fill on concrete relieving platform supported by steel piles and steel sheet pile, solid-filled, cylindrical cells; fronted by steel sheet pile bulkhead with concrete-surfaced solid fill; timber fender system along face of wharf.	Concrete retaining wall with concrete-surfaced solid fill on concrete relieving platform supported by sand-filled, steel pipe piles fronting concrete-capped, steel sheet pile bulkhead with solid fill; timber fender system along face.
DESCRIPTION	Face	Face	Face
Dimensions (Feet)	70+125	501	624
Depth Alongside at MLT Do.	10-15	34	38
Breasting Distance Do.	125	501	624
Total Berthing Space Do.	125	501	624
Width of Apron Do.	Open.	50	Open.
Height of Deck at MLT Do.	8	19.2	19.2
Load Capacity (Lbs per Sq. Ft.)	-	500	500
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
TRANSIT SHEDS Number and Description	None.	One - steel frame, metal-covered; concrete floor.	
Length and Width (Feet)		501 by 151	
Height Inside Do.		16-14	
Floor Area for Cargo (Sq. Ft.)		50,700	
Load Capacity (Lbs. per Sq. Ft.)		500	
Cargo Doors		Shipside: two, 20 by 14, and four, 12 by 10; rear: two, 18 by 18, five, 18 by 10; north end: one, 20 by 13; south end: one, 20 by 13.	None.
MECHANICAL HANDLING FACILITIES	One hand-operated davit mounted on elevated steel platform for handling hose.	Use of mobile cranes and stevedore equipment described under Ref. Nos. 128.	Use of mobile cranes and stevedore equipment described under Ref. Nos. 128.
RAILWAY CONNECTIONS	None.	Port Terminal Railroad: Three surface tracks on apron and 3 platform-level tracks along rear of transit shed tracks join with additional terminal trackage.	Port Terminal Railroad: Three surface tracks on apron join trackage on apron of adjacent Wharf No. 9 (Ref. No. 146).
HIGHWAY CONNECTIONS	Via port roads, concrete, 30 and 36 feet wide, from Clinton Drive, concrete, 50 feet wide.	Via port roads, concrete, 20 and 30 feet wide, from Clinton Drive, concrete, 50 feet wide.	Via port roads, concrete, 20 and 30 feet wide, from Clinton Drive, concrete, 50 feet wide.
WATER SUPPLY (Available to Vessels)	None.	Through 8-inch line with 2-inch connections.	Through 8-inch line with 2-inch connections.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 120/240/440 volts.	None.
FIRE PROTECTION (Other than City)	Hydrants in rear of service road.	Hydrants, hose, hand extinguishers, and security patrol.	Hydrants at rear, and security patrol.
REMARKS	Exxon Chemical Co.: Two 6-inch pipelines extend from platform on wharf to 3 steel storage tanks, total capacity 40,900 barrels, located at company's Houston Chemical Plant, 8230 Stedman Street, approximately 0.4 mile west of Turning Basin.	Trucks have access to wharf apron and to interior of transit shed. Face of wharf is in line and contiguous with face of adjacent wharf (Ref. No. 147). Approximately 9 acres of open storage area are located at rear of wharf. Paved roadway along rear of transit shed is a continuation of roadway at rear of adjacent wharf (Ref. No. 147).	Face of wharf is in line and contiguous with face of adjacent wharf (Ref. No. 146). Trucks have access to open wharf. Approximately 10 acres of open storage area is located at rear of wharf. Paved roadway at rear of wharf is a continuation of roadway along rear of transit shed on adjacent wharf (Ref. No. 146).

PIERS, WHARVES, AND DOCKS

Corps of Engineers Port Code No.	60370 Dock Code No. 407	60370 Dock Code No. 421	60370 Dock Code No. 498
REFERENCE NUMBER ON MAP NO. 3	148	149	150
NAME	Port of Houston, Harbor Inspection Boat Wharf.	City of Houston, 69th Street Wastewater Division, Barge Dock.	Brown & Root, Buffalo Bayou Wharf.
LOCATION ON WATERFRONT	Left bank of Buffalo Bayou, north side of slip, approximately 0.1 mile below Southern Pacific Transportation Co. railroad bridge. Port Road from Clinton Drive	Left bank of Buffalo Bayou, approximately 600 feet above 69th Street Bridge. 69th Street	Left bank of Buffalo Bayou, above Hirsch Street Bridge. 4100 Clinton Drive
OWNED BY	Port of Houston Authority.	City of Houston.	Brown & Root, Inc.
OPERATED BY	Port of Houston Authority.	City of Houston, Public Works Wastewater Division.	Brown & Root, Inc.
PURPOSE FOR WHICH USED	Mooring harbor inspection yacht "M.V. Sam Houston."	Shipment of fertilizer (solid treated waste).	Receipt of steel; shipment of fabrication steel; and mooring company-owned floating equipment for storage and repair.
TYPE OF CONSTRUCTION	Timber pile, timber-decked, offshore wharf with covered approach; timber breasting dolphin off east side in line with face; 2 timber mooring dolphins located 34 feet off face of wharf; 2 timber breasting dolphins off west side of wharf, perpendicular to face; timber fender piles along face.	Reinforced concrete pile, concrete-decked wharf fronting concrete bulkhead with solid fill; fronted by 19 breasting dolphins spaced 30 feet apart; alternate dolphins connected to face by catwalk.	Concrete-capped, steel sheet pile bulkhead with solid fill, part asphalt-surfaced.

DESCRIPTION	Face	Lower side	Upper side	Face			Face		
Dimensions (Feet)	90	4+6	10	495			1,200		
Depth Alongside at MLT Do.	13	-	-	9			0-6		
Breasting Distance Do.	123 w/dlph	-	-	540 w/dlph			1,200		
Total Berthing Space Do.	123 w/dlph	-	-	540 w/dlph			1,200		
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	10			11			10-15		
Load Capacity (Lbs per Sq. Ft.)	-			-			1,000		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	None.	One 2-ton, hand-operated hoist for handling flexible hose, loading rate 100 tons per hour, via air slide system.	One 200-ton, electric, stiff-leg derrick with 110-foot boom mounted on a bull wheel, boom has an 80-foot outboard reach; use of company-owned floating cranes as needed.
RAILWAY CONNECTIONS	None.	None.	Plant trackage in rear connects with tracks of Southern Pacific Transportation Co.
HIGHWAY CONNECTIONS	Via port roads, concrete, 20 and 30 feet wide, from Clinton Drive, concrete, 50 feet wide.	Via Gazin Street, asphalt, 25 feet wide, from Clinton Drive, concrete, 50 feet wide.	Via Grove Street, asphalt, 25 feet wide, from Clinton Drive, concrete, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through 8-inch line with 2-inch connections.	None.	Through 1 1/2-inch line.
ELECTRIC POWER (Available to Vessels)	A.C., 110 volts.	None.	None.
FIRE PROTECTION (Other than City)	Hydrants at rear, and security patrol.	Hydrants and hose.	Hydrants and security patrol.
REMARKS	Passengers board yacht at wharf for inspection trips of Houston Harbor. Covered approach extends from paved parking area in rear at top of bank down sloping side of slip and out to wharf. Timber pile, timber-decked approach extends from opposite side of slip to 2 outer dolphins located 34 feet off face of wharf.	Twelve concrete storage silos located in rear, total capacity 300 tons.	-

Corps of Engineers Port Code No.	60370 Dock Code No. 476	60370 Dock Code No. 521	60370 Dock Code No. 530
REFERENCE NUMBER ON MAP NO. 3	151	152	153
NAME	Southern Pacific Transportation Co., Diesel Fuel Dock.	Parker Bros. Repair Shop Wharf.	Lafarge Corp., Barge Wharves.
LOCATION ON WATERFRONT	Left bank of Buffalo Bayou, above Eastex Freeway Bridge. Semmes Street	Right bank, Buffalo Bayou, between foot of North Live Oak and North Nagle Streets extended. 5303 Navigation Boulevard	Right bank, Buffalo Bayou, on south bend below Southern Pacific Transportation Co. railroad bridge. 501 N. York Street
OWNED BY	Southern Pacific Transportation Co.	Parker Bros. & Co., Inc.	Lafarge Corp.
OPERATED BY	Southern Pacific Transportation Co.	Not operated.	Not operated.
PURPOSE FOR WHICH USED	Receipt of diesel fuel by barge.	Not used.	Not used.
TYPE OF CONSTRUCTION	Timber pile, timber-decked, offshore wharf with 110- by 11-foot approach with 5-foot-wide walkway and 29-foot center descending stairway section; 4 timber mooring dolphins in line with face.	Concrete capped, steel sheet pile bulkhead with concrete-surfaced solid fill.	Lower wharf: steel sheet pile bulkhead with solid fill; upper wharf: concrete bulkhead with solid fill.

DESCRIPTION	Face	Sides		Face			Lower wharf	Upper wharf	
Dimensions (Feet)	32	14, each		312			250	195+315	
Depth Alongside at MLT Do.	3-7	-		5-7			11-15	11-15	
Breasting Distance Do.	175 w/dlph	-		312			250	195+315	
Total Berthing Space Do.	175 w/dlph	-		312			250	195+315	
Width of Apron Do.	Open.			Open.			Open.	Open.	
Height of Deck at MLT Do.	13.4			12			11	11	
Load Capacity (Lbs per Sq. Ft.)	-			1000			1,000	1,000	
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One 2-ton, hand-operated, mast-and-boom derrick with horizontal boom for handling hose.	None.	None.
RAILWAY CONNECTIONS	Southern Pacific Transportation Co.: One surface track extends along shore at rear of approach.	Plant trackage in rear connects with Houston Belt & Terminal Railway.	Plant trackage in rear connects with Houston Belt & Terminal Railway.
HIGHWAY CONNECTIONS	Via Semmes Street, gravel, various widths, from Nance Street, concrete, 25 feet wide.	Via North Live Oak Street, asphalt, 20 feet wide, from Navigation Boulevard.	Via plant road, concrete, 20 feet wide, from York Street.
WATER SUPPLY (Available to Vessels)	None.	None.	Through 2-inch line.
ELECTRIC POWER (Available to Vessels)	None.	None.	A.C., 110/220/440 volts.
FIRE PROTECTION (Other than City)	Hand extinguishers.	None.	Water line, hose, and security patrol.
REMARKS	One 8-inch pipeline extends from wharf to 2 steel storage tanks, total capacity 31,000 barrels, located in rear of Southern Pacific Transportation Co.'s Fulton Street shops.	Parker Bros. & Co., Inc., operates an equipment repair shop in rear of wharf.	Additional mooring available for idle barges alongside bank of Bayou between upper and lower wharves.

Corps of Engineers Port Code No.	60370 Dock Code No. 537	60370 Dock Code No. 544	60370 Dock Code No. 546
REFERENCE NUMBER ON MAP NO. 3	154	155	156
NAME	Ashland-Warren Drennan Street Wharf.	Parker Bros., Turkey Bend Dock.	Parker Bros., Engle Street Dock.
LOCATION ON WATERFRONT	Right bank, Buffalo Bayou, approximately 750 feet below Hirsch Street Bridge. Drennan Street	Right bank, Buffalo Bayou, west side at entrance to Turkey Bend Channel. 8303 Navigation Boulevard	Right bank of Buffalo Bayou, inner portion of west side of Turkey Bend Channel. Engle St.
OWNED BY	Gulf Division of Ashland-Warren, Inc	Parker Bros. & Co., Inc.	Parker Bros. & Co., Inc.
OPERATED BY	Not operated.	Parker Bros. & Co., Inc.	Parker Bros. & Co., Inc.
PURPOSE FOR WHICH USED	Not used for handling waterborne commerce.	Receipt and shipment of sand, shell, and limestone by barge.	Receipt of sand and shell by barge; mooring, repairing, and servicing company-owned floating equipment.
TYPE OF CONSTRUCTION	Concrete-capped, steel sheet pile bulkhead with solid fill.	Steel sheet pile bulkhead with concrete-surfaced solid fill; 6 timber mooring dolphins in line with face.	Part steel sheet pile and part concrete bulkhead with solid fill.
DESCRIPTION	Face	Face	Face
Dimensions (Feet)	265+35	133	1,100
Depth Alongside at MLT Do.	4-6	10	8-10
Breasting Distance Do.	265+35	530 w/dlph	1,100
Total Berthing Space Do.	265+35	530 w/dlph	1,100
Width of Apron Do.	Open.	Open.	Open.
Height of Deck at MLT Do.	10	8	10
Load Capacity (Lbs per Sq. Ft.)	1,000		1,000
Lighted or Unlighted	Unlighted.	Lighted.	Lighted.
MECHANICAL HANDLING FACILITIES	None.	One diesel, crawler crane equipped with 60-foot boom and 3-cubic yard bucket unloads materials from barges to a 75-cubic yard hopper, which is served by a 53-inch electric, belt conveyor extending to radial stacker in rear. One 48/53-inch electric belt conveyor system extends from rail car unloading facility to pivoting boom with 30-foot outboard reach for shipment of sand, shell, and limestone; loading rate 1,500 tons per hour.	Two diesel crawler cranes: one with 100-foot boom and 7-cubic yard bucket, and one with 65-foot boom and 4-cubic-yard bucket; cranes unload sand and shell from barges to open and bin storage areas at rear serving electric, belt-conveyor systems extending to concrete stabilizer plant in rear. Cranes also can serve two 35-cubic yard truck-loading hoppers.
RAILWAY CONNECTIONS	None.	Two surface tracks, total capacity 100 cars, serve rail unloading facility; connect with Houston Belt & Terminal Railway.	Plant trackage in rear connects with Houston Belt & Terminal Railway.
HIGHWAY CONNECTIONS	Via Drennan Street, asphalt, 20 feet wide, from Navigation Boulevard.	Via private road, paved, 30 feet wide, from Navigation Boulevard.	Via private road, paved, 30 feet wide, from Navigation Boulevard.
WATER SUPPLY (Available to Vessels)	Through 3-inch line.	None.	Through one 2-inch line.
ELECTRIC POWER (Available to Vessels)	None	A.C., 110/220/440 volts.	A.C., 110 volts.
FIRE PROTECTION (Other than City)	Water line and hose.	Hand extinguishers.	Hand extinguishers, hydrants in rear, hose, and security patrol.
REMARKS	-	Radial stacker serves a 15-acre open storage area in rear. Concrete reclaimer, concrete and asphalt batch plant located in rear.	Open storage area in rear of wharf for approximately 3,000 tons of material.

Corps of Engineers Port Code No.	60370 Dock Code No. 549	60370 Dock Code No. 559	60370 Dock Code No. 560
REFERENCE NUMBER ON MAP NO. 3	157	158	159
NAME	General Stevedores, Houston Barge Terminal Wharf.	General Stevedores, Barge-Side Warehouse Wharf.	Gulf Coast Portland Cement Co. Dock.
LOCATION ON WATERFRONT	Right bank, Buffalo Bayou, south side of Turkey Bend Channel. 5907 Navigation Boulevard	Right bank, Buffalo Bayou, above foot of McFarland Street extended. 5807 Navigation Boulevard	Right bank, Buffalo Bayou, approximately 0.3 mile above Houston Belt & Terminal Railway Bridge. 6203 Industrial Way
OWNED BY	General Stevedores, Inc.	General Stevedores, Inc.	Gulf Coast Portland Cement Co., Division of McDonough Corp.
OPERATED BY	General Stevedores, Inc.	General Stevedores, Inc.	Gulf Coast Portland Cement Co., Division of McDonough Corp.
PURPOSE FOR WHICH USED	Receipt and shipment of general cargo and steel products by barge in domestic trade; receipt of dry bulk commodities, including fertilizer and feed additives.	Receipt and shipment of general cargo, steel, and construction materials and equipment; shipment of drilling mud; receipt of salt, fertilizer, and other dry bulk materials.	Receipt of aragonite, clay, and cement clinker by barge.
TYPE OF CONSTRUCTION	165-foot steel sheet pile bulkhead with solid fill, fronted by concrete and timber platform; 400-foot timber bulkhead with solid fill; and 200-foot timber bulkhead with timber pile, timber-decked extension fronted by steel fender piles.	Part steel sheet pile and part timber pile bulkhead with solid fill.	Concrete-capped, cylindrical, concrete pile bulkhead with solid fill and concrete deck; timber fender system; elevated, steel frame, overhead craneway extends 55 feet beyond face of wharf from plant in rear.
DESCRIPTION	Face	Face	Face
Dimensions (Feet)	165+400+200	280+150	510+80
Depth Alongside at MLT Do.	10	10	10
Breasting Distance Do.	165+400+20	430	510+80
Total Berthing Space Do.	165+400+20	430	510+80
Width of Apron Do.	25, 40, & open.	Open.	Open.
Height of Deck at MLT Do.	16	12	8
Load Capacity (Lbs per Sq. Ft.)	1,000, steel bulkhead portion.	1,000	
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
TRANSIT SHEDS Number and Description	One- steel frame, metal-covered; asphalt-surfaced concrete floor.	One- steel frame, metal-covered; concrete floor.	None.
Length and Width (Feet)	450x60	300 by 200	
Height Inside Do.	15	15	
Floor Area for Cargo (Sq. Ft.)	16,000	60,000	
Load Capacity (Lbs. per Sq. Ft.)	1000	Unlimited.	
Cargo Doors	Shipside and rear: eight, each 12 by 15 (2 shipside doors used, remainder closed); end: one, 12 by 15.	Shipside: two, 15 by 15, and four, 10 by 12; rear: five, 10 by 12.	
MECHANICAL HANDLING FACILITIES	One 10-ton, electric, traveling, overhead crane, with two 5- ton hoists extends 50 feet beyond face of wharf and through shed to rail tracks in rear; one 15-ton, electric, traveling, overhead crane with two 7 1/2-ton hoists and 70-foot span extends 50 feet beyond face of upper section and 145 feet over wharf and rail tracks in rear. One 150-ton diesel crawler crane with 75-foot boom, one 35-, one 25-, and one 20-ton, diesel crawler cranes with 50- to 85-foot booms; one 85-ton, diesel, mobile crane with 75-foot boom. One 55-inch electric magnet available for use on overhead cranes. Additional equipment includes 5 tractors for shifting rail cars and barges, two 2 1/2-cubic yard, mobile , diesel front-end loaders, fifteen 2- to 20-ton diesel forklift trucks, and one 24-cubic yard portable truckloading hopper.	Use of mobile cranes and front-end loaders described under Ref. No. 157.	One electric, stiff-leg derrick with 120-foot boom mounted on bull wheel, equipped with 5-cubic yard bucket, unloading rate 300 tons per hour; one 10-ton, electric, traveling overhead crane equipped with 5-cubic yard bucket, unloading rate 300-400 tons per hour. (See Remarks.)
RAILWAY CONNECTIONS	Two platform-level tracks along rear of transit shed, total length 900 feet, join additional trackage in rear of upper wharf section; connect with Houston Belt & Terminal Railway.	Two surface tracks serve warehouse in rear; connect with Houston Belt & Terminal Railway.	Two surface tracks serve cement plant in rear; connect with Houston Belt & Terminal Railway.
HIGHWAY CONNECTIONS	Via private road under railroad tracks, concrete and shell, 25 feet wide, from Navigation Boulevard.	Via Greenwood Street, from Industrial Way, concrete, 24 feet wide, and McFarland Street, 50 feet wide.	Via plant roads, from Industrial Way, concrete, 24 feet wide, and McFarland Street, concrete, 50 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 2 1/2-inch line with hose connections.	Through one 8-inch line with 1 1/2-inch connection.	None.
ELECTRIC POWER (Available to Vessels)	A.C.,110/220/440 volts.	A.C., 110 volts.	A.C., 110/220/440 volts.
FIRE PROTECTION (Other than City)	Water line, hose reels, hand extinguishers, and security patrol.	Hand extinguishers in warehouse at rear.	Water lines, hoses, hand extinguishers; portable pump available at plant.
REMARKS	An 80- by 35-foot, metal-covered storage shed is located at rear of upper wharf section. Approximately 1.4 acres of open storage area is available at terminal and an additional open storage area is available nearby at company-operated public storage warehouses Nos. 1 and 2 (S.W. Ref. No. 11) located on Navigation Boulevard in rear.	Open storage area of 7 1/4 acres is available at rear.	Stiff-leg derrick unloads clay into 10,000-ton capacity open storage area at rear. Overhead crane unloads aragonite to plant in rear or to 20,000-ton open storage area at rear. Cement plant located in rear; bulk cement is shipped by rail and truck.

Corps of Engineers Port Code No.	60370 Dock Code No. 501	60370 Dock Code No. 503	60370 Dock Code No. 505
REFERENCE NUMBER ON MAP NO. 3	160	161	162
NAME	Gulf States Asphalts, Dock.	Port of Houston, Public Wharf No. 4.	Port of Houston, Public Wharf No. 3.
LOCATION ON WATERFRONT	Right bank of Buffalo Bayou, below Southern Pacific Transportation Co. railroad bridge. 7220 J.W Peavy Street	Right bank, Buffalo Bayou, south side of Houston Ship Channel Turning Basin. 75th Street	Right bank, Houston Ship Channel, south side of Turning Basin. Foot of 75th Street
OWNED BY	Port of Houston Authority and Port Houston Marine, Inc.	Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Gulf States Asphalt.	Port of Houston Authority.	Port of Houston Authority.
PURPOSE FOR WHICH USED	Receipt of asphalt by barge.	Mooring tugs, towboats, and an occasional vessel awaiting berth at another public wharf.	Mooring tugs, towboats, and occasionally vessels awaiting berth at other public wharves.
TYPE OF CONSTRUCTION	Timber pile, steel covered timber-decked pier; 2 timber breasting dolphins fronting and in line with face.	East 492-foot section: Concrete retaining wall with concrete-surfaced solid fill on concrete relieving platform supported by timber piles fronting timber bulkhead with solid fill. West 287-foot section: Concrete piles with concrete cross beams at low water level supporting concrete walls with concrete deck, fronting steel sheet pile bulkhead with solid fill, all fronted by timber fender system.	Concrete retaining wall with concrete-surfaced solid fill on concrete relieving platform supported by timber piles fronting timber bulkhead; timber fender system along face of wharf.

DESCRIPTION	Face	Sides		Face	Upper side		Face		
Dimensions (Feet)	33	45, each		779	94		802		
Depth Alongside at MLT Do.	12-15	0-15		27-32	-		33		
Breasting Distance Do.	250 w/dlph	-		779	-		802		
Total Berthing Space Do.	250 w/dlph	-		779	-		802		
Width of Apron Do.	Open.			20, 25, open			30 and open.		

Height of Deck at MLT Do.	6	8.8	9.3
Load Capacity (Lbs per Sq. Ft.)		600	600
Lighted or Unlighted	Partly lighted.	Lighted.	Lighted.
TRANSIT SHEDS Number and Description	None.	One 338- by 95-foot section: concrete; one 182- by 95-foot section: steel frame, metal covered; concrete floors.	One - steel frame, metal-covered; wood-decked roof, asphalt-surfaced concrete floor.
Length and Width (Feet)		338x95 &182	420-370&392x95
Height Inside Do.		13-23 and 15	13.5-14
Floor Area for Cargo (Sq. Ft.)		25,700 &13,800	25, 320
Load Capacity (Lbs. per Sq. Ft.)		500	600
Cargo Doors		West section, shipside and rear: four each, 16 by 12; east and west ends: one each, 14 by 14; west end: one additional 30 by 14. East section: shipside: four 30 by 14 and four 16 by 12; rear: eight, 10 by 12; west end: 16 by 14.	Shipside: eight, 12 by 12; rear: eight, 10 by 10; upper end: one 14 by 14.
MECHANICAL HANDLING FACILITIES	One 1 1/2-ton, pneumatic, stiff-leg derrick with 45-foot boom with a 30-foot outboard reach for handling hose.	Use of mobile cranes and stevedore equipment described under Ref. Nos. 129.	Use of mobile cranes and stevedore equipment described under Ref. Nos. 128.
RAILWAY CONNECTIONS	Port Terminal Railroad: One surface track located at rear.	Port Terminal Railroad: Two platform-level tracks along rear of transit shed; tracks join with additional terminal tracks in rear.	Port Terminal Railroad: Two surface tracks on apron, and 2 platform-level tracks along rear of transit shed, join additional trackage on open wharf.
HIGHWAY CONNECTIONS	Via J.W. Peavy Street, asphalt, 45 feet wide.	Via 75th Street, asphalt, 40 feet wide.	Via 75th Street, asphalt, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 2-inch line with 1 1/2-inch hose connections.	Through line with 2-inch hose connections.	Through 8-inch line with 2-inch connections.
ELECTRIC POWER (Available to Vessels)	A.C., 440 volts.	A.C., 120/240/440 volts.	A.C., 120/240/440 volts.
FIRE PROTECTION (Other than City)	Hand extinguishers, water line, hose, and security patrol.	Hydrants, hand extinguishers, and security patrol.	Hydrants, hose, hand extinguishers, and security patrol.
REMARKS	One 10-inch flexible hose extends to pipeline from wharf to 3 steel storage tanks, total capacity 28,000 barrels.	Storage warehouse located in rear (S.W. Ref. No. 8). Approximately 0.3 acres of open storage available between transit sheds. Trucks have access to wharf apron and to interior of transit shed. Paved roadway along rear of transit shed is a continuation of paved roadway along rear of adjacent Wharf No. 3 (Ref. No. 162).	Trucks have access to open wharf, to wharf apron, and to interior of transit shed. Approximately 0.4 acre of concrete-paved storage area on open portion of wharf.

Corps of Engineers Port Code No.	60370 Dock Code No. 567			60370 Dock Code No. 568			60370 Dock Code No. 56		
REFERENCE NUMBER ON MAP NO. 3	163			164			165		
NAME	Port of Houston, Public Wharf No. 2.			Port of Houston, Public Wharf No. 1 - West.			Port of Houston, Public Wharf No. 1 - East.		
LOCATION ON WATERFRONT	Right bank, Houston Ship Channel, adjacent to south side of Turning Basin. Foot of 75th Street			Right bank, Houston Ship Channel, approximately 520 feet below south side of Turning Basin. 75th Street			Right bank, Houston Ship Channel, approximately 0.2 mile below south side of Turning Basin. 7600 J. W. Peavy Street		
OWNED BY	Port of Houston Authority.			Port of Houston Authority.			Port of Houston Authority.		
OPERATED BY	Port of Houston Authority and Houston Tank Storage Co.			Port of Houston Authority; Jacob Stern & Sons (Texas), Inc.Southern Stevedoring Co., Inc.; Pacific Molasses Co.			Port of Houston Authority and Pacific Molasses Co.		
PURPOSE FOR WHICH USED	Receipt and shipment of general cargo in foreign and domestic trade; receipt of vegetable oil.			Receipt and shipment of general cargo in foreign and domestic trade; shipment of tallow and vegetable oil.			Receipt of molasses; shipment of tallow, vegetable oils, and chemicals; mooring vessels.		
TYPE OF CONSTRUCTION	Concrete retaining wall with concrete-surfaced solid fill on concrete relieving platform supported by timber piles, fronting timber bulkhead with solid fill; timber fender system along face.			Timber piles, concrete cross beams supporting concrete columns and concrete deck, fronting steel sheet pile bulkhead with solid fill; timber fender system along face.			Timber pile, timber-decked, offshore wharf with 59- by 12-foot, timber approach from shore over timber bulkhead with solid fill; 4 steel breasting dolphins in line with face.		
DESCRIPTION	Face			Face	Lower side		Face	Sides	
Dimensions (Feet)	519			603	49		42	18, each	
Depth Alongside at MLT Do.	33			34	-		34	-	
Breasting Distance Do.	519			603	-		175 w/dlph	-	
Total Berthing Space Do.	519			603	-		175 w/dlph	-	
Width of Apron Do.	30			55 and open.			Open.		
Height of Deck at MLT Do.	12.8			14.3			16.8		
Load Capacity (Lbs per Sq. Ft.)	600			600			250		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		
TRANSIT SHEDS Number and Description	One, steel-frame, metal-covered; concrete floor.			One- concrete walls; concrete floor.			None.		
Length and Width (Feet)	480 by 120			425 by 100					
Height Inside Do.	14			14.5					
Floor Area for Cargo (Sq. Ft.)	38,360			28,335					
Load Capacity (Lbs. per Sq. Ft.)	500			500					
Cargo Doors	Shipside: five, 18 by 13.5; five, 12 by 12; rear: continuous doors, one 18 by 13.5; each end: one 12 by 12.			Shipside: seven, 12 by 12; one, 14 by 12; rear: eight, 10 by 14; lower end: one, 10 by 14; upper end: two, 14 by 12.					
MECHANICAL HANDLING FACILITIES	Use of mobile cranes and stevedore equipment described under Ref. Nos. 120.			Use of mobile cranes and stevedore equipment described under Ref. Nos. 128.			None.		
RAILWAY CONNECTIONS	Port Terminal Railroad: Two platform-level tracks along rear of transit shed, join additional terminal trackage in rear.			Port Terminal Railroad: Two platform-level tracks along rear of transit shed join with additional terminal trackage in rear.			None.		
HIGHWAY CONNECTIONS	Via 75th Street, asphalt, 40 feet wide.			Via 75th Street, asphalt, 40 feet wide.			Via 75th Street, asphalt, 40 feet wide.		
WATER SUPPLY (Available to Vessels)	Through 8-inch line with 2-inch connections.			Through 8-inch line with 2-inch connections.			Through 2-inch line.		
ELECTRIC POWER (Available to Vessels)	A.C., 120/240/440 volts.			A.C., 120/240/440 volts.			None.		
FIRE PROTECTION (Other than City)	Hydrants, hose, hand extinguishers, and security patrol.			Hydrants, hose, hand extinguishers, and security patrol.			Hydrants in rear and security patrol.		
REMARKS	Houston Tank Storage Co.: One 6-inch pipeline extends from wharf to 7 steel storage tanks in rear of transit shed, total capacity 3,128,000 gallons. Face of wharf is in line and contiguous with face of adjacent Wharf No. 1 - West (Ref. No. 164). Trucks have access to wharf apron and to interior of transit shed. Paved roadway along rear of transit shed is a continuation of roadway along rear of adjacent wharves (Ref. Nos. 162 and 164).			Jacob Stern & Sons (Texas), Inc.: Two 6-inch pipeline extends to wharf from 38 steel storage tanks, total capacity 10,725,000 gallons. Mobile drumming platform located on lower part of wharf is owned and operated by Southern Stevedoring Co., Inc. Pacific Molasses Co.: One 8-inch tallow pipeline extends to wharf from tanks described under Ref. 167. Face of wharf is in line and contiguous with face of adjacent Wharf No. 2 (Ref. No. 163). Trucks have access to wharf apron and to interior of transit shed. Paved roadway along rear of transit shed is a continuation of roadway along rear of adjacent wharves (Ref. Nos. 163 and 165).			Pacific Molasses Co.: One 12-inch molasses, one 8-inch tallow, and one 6-inch stainless steel chemical pipelines extend to wharf from tankage at Pacific Molasses Co. plant described under Ref. No. 167.		

Corps of Engineers Port Code No.	60370 Dock Code No. 569	60370 Dock Code No. 592	60370 Dock Code No. 599
REFERENCE NUMBER ON MAP NO. 3	166	167	168
NAME	Port of Houston, Tug and Towboat Wharf.	Pacific Molasses Co. Dock.	Port of Houston, Public Wharves Nos. 41 through 48.
LOCATION ON WATERFRONT	Right bank, Houston Ship Channel, approximately 0.2 mile below south side of Turning Basin.	Approximately 0.4 mile below south side of Turning Basin. 7600 J. W. Peavy Street	Right bank, Houston Ship Channel, approximately 0.9 mile above East Loop Freeway (Interstate Highway 610) Bridge. 76th St.
OWNED BY	Port of Houston Authority.	Pacific Molasses Co.	Port of Houston Authority.
OPERATED BY	Not operated.	Pacific Molasses Co.	Port of Houston Authority.
PURPOSE FOR WHICH USED	Not used.	Receipt of liquid fertilizer, caustic soda, and molasses; shipment of tallow and liquid wax.	Receipt and shipment of general cargo in foreign and domestic trade; shipment of cotton.
TYPE OF CONSTRUCTION	Timber pile, sloped, timber-decked, offshore wharf with 60- by 10-foot timber approach; fronted by 6 steel breasting dolphins extend along face.	Timber pile, timber-decked, offshore wharf with 30- by 12-foot timber approach; 4 steel and 1 timber breasting dolphins in line with face.	Concrete piles, concrete cross beams at low water level supporting concrete walls and concrete deck; 148 feet of north section has timber pile. Timber fender system along face.

DESCRIPTION	Face	Lower side	Upper side	Face	Sides		Face		
Dimensions (Feet)	300, approx	6	10	42	18, each		3,428		
Depth Alongside at MLT Do.	34	-	-	30	-		33		
Breasting Distance Do.	300, approx	-	-	210 w/dlph	-		3,428		
Total Berthing Space Do.	300, approx	-	-	600 w/mrgs	-		3,428		
Width of Apron Do.	6 & 10			Open.			44-25		

Height of Deck at MLT Do.	8-16	9	15.8
Load Capacity (Lbs per Sq. Ft.)		-	800
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
TRANSIT SHEDS Number and Description	None.	None.	One, 2-story section: concrete and brick; 1-story section: steel frame metal-covered; part asphalt- and part concrete-surfaced floors.
Length and Width (Feet)			3,353x194 & 237
Height Inside Do.			1st fl.- 9.5-18; 2d fl.- 10.5
Floor Area for Cargo (Sq. Ft.)			1st fl. - 581,680;2d fl. -149,400
Load Capacity (Lbs. per Sq. Ft.)			1st fl. - 200&1,000;2d fl.- 200
Cargo Doors			Shipside: 1st floor- fifty-seven, 16 by 14 to 10 by 8; 2d floor-seventy, 8 by 8; rear: fifty-one, 16 by 16 to 8 by 10; north end: two 10 by 8.
MECHANICAL HANDLING FACILITIES	None.	One 1-ton, electric, hand-operated, mast-and-boom derrick with 20-foot boom for handling hose.	One elevated, electric, stiff-leg derrick on apron with 90-foot boom mounted on bull-wheel, capacity 75 tons at 80-foot radius; use of mobile cranes and stevedore equipment described under Ref. Nos. 128 and 130.
RAILWAY CONNECTIONS	None.	Three surface tracks serving plant in rear, total capacity 17 cars, connect with Houston Belt & Terminal Railway.	Houston Belt & Terminal Railway: Two surface tracks on apron connect with platform-level tracks along rear of transit shed and Receiving Platform No. 3.
HIGHWAY CONNECTIONS	Via port road, shell, 10 feet wide, from J.W. Peavy Street.	Via private road and open area from J.W. Peavy Street.	Via private road, paved, 20 feet wide, from Avenue P and 76th Street, asphalt, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 2-inch line with hose connections.	Through 2-inch line with 2-inch connections.	Through 8-inch line with 2 1/2-inch connections.
ELECTRIC POWER (Available to Vessels)	A.C., 110 volts.	A.C., 110/220/440 volts.	A.C., 110/220 volts; D.C. 250 volts.
FIRE PROTECTION (Other than City)	None.	Water line, hose, and hand extinguishers.	One 100,000-gallon water tower, sprinkler system in transit shed, hydrants, and hose.
REMARKS	-	One 12-inch molasses, one 8-inch fertilizer, one 8-inch tallow, one 6-inch caustic, and one 6-inch stainless steel chemical pipelines extend from wharf to 32 steel storage tanks located in rear, total capacity 22,820,400 gallons. One 2-inch compressed air line for cleaning out barges; one 6-inch steam line for barge heating.	Cargo space in transit shed on 1st floor includes Receiving Platform No. 3. Transit shed is also used as a storage warehouse in addition to warehouse buildings in rear (S.W. Ref. No. 7). Trucks have access to wharf apron and to interior of 1st and 2d floors of transit shed. Approximately 1.7 acres of open storage area at terminal.

Corps of Engineers Port Code No.	60370 Dock Code No. 601	60370 Dock Code No. 608	50370 Dock Code No. 608
REFERENCE NUMBER ON MAP NO. 3	169	170	171
NAME	New Terminal Warehouse Corp., Berths Nos. 1 and 2.	Triple B Terminals, Inc., Dock.	Bludworth Bond Shipyard, Repair Dock.
LOCATION ON WATERFRONT	Right bank of Houston Ship Channel, approximately 0.3 mile above mouth of Brays Bayou. Wharf Street	Left bank of Brays Bayou, above foot of Brays Boulevard extended. 819 S. 80th Street	Right side of entrance to Brays Bayou. 8114 Hockley Street
OWNED BY	New Terminal Warehouse Corp.	Triple B Terminals, Inc.	Bludworth Bond Shipyard, Inc.
OPERATED BY	New Terminal Warehouse Corp	Triple B Terminals, Inc.	Bludworth Bond Shipyard, Inc.
PURPOSE FOR WHICH USED	Shipment of general cargo in foreign and domestic trade.	Receipt and shipment of scrap metal, receipt of pig iron, oats, and rice.	Mooring barges and small vessels for repair and construction; mooring floating drydocks.
TYPE OF CONSTRUCTION	Concrete pile, concrete cross beams at low water level supporting concrete deck; fronted by timber fender system.	Steel sheet pile bulkhead with concrete-surfaced solid fill; fronted by timber fender system.	Steel sheet pile bulkhead with solid fill; steel pipe mooring dolphins in line with face of wharf.

DESCRIPTION	Face	Sides		Face			Face		
Dimensions (Feet)	830	50, each		575			1,500		
Depth Alongside at MLT Do.	27-35	-		20			5-25		
Breasting Distance Do.	830	-		575			1,500 w/dlph		
Total Berthing Space Do.	830	-		575			1,500 w/dlph		
Width of Apron Do.	35-20			Open.			Open.		
Height of Deck at MLT Do.	18			8			4-6		
Load Capacity (lbs per Sq. Ft.)	400			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Partly lighted.		

TRANSIT SHEDS Number and Description	One- steel frame, metal-covered; concrete floor.	None.	None.
Length and Width (Feet)	450 x 125		
Height Inside Do.	12		
Floor Area for Cargo (Sq. Ft.)	45,000		
Load Capacity (Lbs. per Sq. Ft.)	1,000		
Cargo Doors	Shipside and rear: four, each 12 by 12 each end: one, 12 by 14.		
MECHANICAL HANDLING FACILITIES	Sixteen 1 1/2- to 3 1/2- ton gasoline and LP-gas, fork lift trucks.	One 90-, and one 50-ton, diesel, crawler cranes with 80- and 45-foot booms, respectively.	One 22-, and one 15-ton, electric tower cranes, each with 164-foot boom; one 50-ton, diesel, crawler crane with 90-foot boom; and one 15-ton, diesel, hydraulic, mobile crane with 60-foot boom.
RAILWAY CONNECTIONS	One platform-level track along west side of warehouse connects with Houston Belt & Terminal Railway.	None.	None.
HIGHWAY CONNECTIONS	Via road, shell, 40 feet wide, and Wharf Street, concrete, 24-50 feet wide, from Harrisburg Boulevard, concrete, 60 feet wide.	Via South 80th Street, concrete, 20 feet wide, from Harrisburg Boulevard, concrete, 60 feet wide.	Via Hockley Street, shell, 25 feet wide, from Broadway, concrete, 40-45 feet wide.
WATER SUPPLY (Available to Vessels)	Through 4-inch line with 2 1/2-inch connections.	Through 3/4-inch line.	Through 2-inch line with 2-inch connection.
ELECTRIC POWER (Available to Vessels)	A.C., 110/480 volts.	A.C., 110/220 volts.	A.C., 110/220/440 volts.
FIRE PROTECTION (Other then City)	One 100,000-gallon water tower, hydrants, and hose.	Well, fire pump, hose, and hand extinguishers.	Water line, hose, and hand extinguishers..
REMARKS	Storage warehouse (S.W. Ref. No. 6) is located in rear.	Six acres of open storage area are located in rear.	One 1,700-, one 1,200- and one 1,100-ton floating drydocks moored at wharf. Marine repair plant located in rear.

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Corps of Engineers Port Code No.	60370 Dock Code No. 615	60370 Dock Code No. 616	60370 Dock Code No. 616
REFERENCE NUMBER ON MAP NO. 3	172	173	174
NAME	Houston Ship Repair, Brady Island Wharf.	Newpark Shipbuilding and Repair, North Building Ways Slip.	Newpark Shipbuilding and Repair, Ship Channel Dock.
LOCATION ON WATERFRONT	Brady Island, right bank of Houston Ship Channel, 600 feet below upper junction with Harrisburg Bend. 8500 Cypress Street	Right bank of Houston Ship Channel, lower side of slip located 600 feet above lower junction with Harrisburg Bend. 8502 Cypress Street	Right bank of Houston Ship Channel, above lower junction with Harrisburg Bend. 8502 Cypress Street
OWNED BY	Diversified Group Inc.	Newpark Shipbuilding & Repair, Inc., subsidiary of Newpark Resources, Inc.	Newpark Shipbuilding & Repair, Inc., subsidiary of Newpark Resources, Inc.
OPERATED BY	Houston Ship Repair, Inc.	Newpark Shipbuilding & Repair, Inc., subsidiary of Newpark Resources, Inc.	Newpark Shipbuilding & Repair, Inc. subsidiary of Newpark Resources, Inc.
PURPOSE FOR WHICH USED	Mooring vessels for repair.	Mooring vessels for repair, construction, outfitting, and conversion.	Mooring vessels for repair; mooring floating drydocks.
TYPE OF CONSTRUCTION	Timber pile, timber-decked, offshore wharf with 55- by 15-foot timber approach; 2 concrete-filled steel pipe pile breasting dolphins in line with face.	Steel sheet pile bulkhead with solid fill.	Steel sheet pile bulkhead with solid fill.

DESCRIPTION	Face	Sides		Face			Face		
Dimensions (Feet)	125	15, each		300			655		
Depth Alongside at MLT Do.	25	-		8-15			17-19		
Breasting Distance Do.	200 w/dlph	-		300			655		
Total Berthing Space Do.	750 w/mrgs	-		300			655		
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	12			5-16			5		
Load Capacity (Lbs per Sq. Ft.)							-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One 10-ton tower crane tower crane with 200-foot boom. One diesel fork lift truck.	One electric, traveling tower crane - lift capacity of 22 tons at 50-, and 6 tons at 180-foot radius; and one 110-, and one 75-ton, diesel crawler cranes, each with a 120-foot boom and 30-foot jib extension; additional rental equipment is available as required.	Use of mobile and crawler cranes described under Ref. No. 173.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via Cypress Street, unpaved, 15 feet wide, from Broadway, concrete, 40-45 feet wide.	Via Cypress Street, concrete, 24 feet wide, from Broadway, concrete, 40-45 feet wide.	Via Cypress Street, concrete, 24 feet wide, from Broadway, concrete, 40-45 feet wide.
WATER SUPPLY (Available to Vessels)	Through 4-inch line with 2 1/2-inch connections.	Through 4-inch line.	Through 4-inch line.
ELECTRIC POWER (Available to Vessels)	A.C., 110/440 volts.	A.C., 110/220/440 volts.	A.C., 110/220/440 volts.
FIRE PROTECTION (Other than City)	Hydrants, hose, hand extinguishers, and security patrol.	Hydrants, hose, hand extinguishers, and security patrol.	Hydrants, hose, hand extinguishers, and security patrol.
REMARKS	Metal-covered storage building located in rear.	One 1,600-ton marine railway located at inner end of slip; welding connections available at wharf; marine repair plant located in rear.	One 3,200-, one 1,500-ton, and one 1,200-ton floating drydocks moored at wharf can be used for launching newly constructed vessels as required. Marine repair plant is located in rear.

Corps of Engineers Port Code No.	60370 Dock Code No. 617	60370 Dock Code No. 618	60370 Dock Code No. 619
REFERENCE NUMBER ON MAP NO. 3	175	176	177
NAME	Newpark Shipbuilding and Repair, East Wharf and South Dock.	Newpark Shipbuilding and Repair, South Building Ways Fitting Out Dock.	Newark Shipbuilding and Repair, Gas Freeing Plant Dock.
LOCATION ON WATERFRONT	Brady Island, left bank of Harrisburg Bend, above lower junction with Houston Ship Channel. 8502 Cypress Street	Brady Island, left bank of Harrisburg Bend, approximately 1200 feet above lower junction with Houston Ship Channel. 8502 Cypress St.	Brady Island, left bank of Harrisburg Bend, approximately 0.3 mile above lower junction with Houston Ship Channel. 8502 Cypress Street
OWNED BY	Newpark Shipbuilding & Repair, Inc., subsidiary of Newpark Resources, Inc.	Newpark Shipbuilding & Repair, Inc. subsidiary of Newpark Resources, Inc.	Newpark Shipbuilding & Repair, Inc. subsidiary of Newpark Resources, Inc.
OPERATED BY	Newpark Shipbuilding & Repair, Inc., subsidiary of Newpark Resources, Inc.	Newpark Shipbuilding & Repair, Inc. subsidiary of Newpark Resources, Inc.	Newpark Shipbuilding & Repair, Inc. subsidiary of Newpark Resources, Inc.
PURPOSE FOR WHICH USED	Mooring vessels for repair, construction, outfitting, and conversion.	Mooring various types of small vessels for repair, outfitting, and conversion.	Mooring barges for cleaning and gas freeing.
TYPE OF CONSTRUCTION	Steel sheet pile bulkhead with solid fill; row of steel breasting dolphins in line with face; catwalks extend to dolphins from shore.	Timber pile, steel plate covered, timber-decked wharf.	Timber pile, timber-decked, offshore, L-shaped wharf with two steel walkway approaches; row of timber breasting dolphins in line with face on upper end.

DESCRIPTION	Face			Face	Sides		Face		
Dimensions (Feet)	800			300	6, each		200+200		
Depth Alongside at MLT Do.	3-8			6-12	-		6-8		
Breasting Distance Do.	1,020 w/dlph			300	-		250 w/dlph		
Total Berthing Space Do.	1,020 w/dlph			300	-		250 w/dlph		
Width of Apron Do.	Open.			Open.			Open.		

Height of Deck at MLT Do.	3	2	10
Load Capacity (Lbs per Sq. Ft.)	-	-	-
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
MECHANICAL HANDLING FACILITIES	One 5-ton, electric, stiff-leg derrick with 50-foot boom mounted on bull wheel, and use of mobile and crawler cranes described under Ref. No. 173.	One 6-ton, electric, traveling gantry crane straddles tug and barge building area in rear of wharf. Use of mobile and crawler cranes described under Ref. No. 173.	None.
RAILWAY CONNECTIONS	None.	None.	None.
HIGHWAY CONNECTIONS	Via Cypress Street, concrete, 24 feet wide, from Broadway, concrete, 40-45 feet wide.	Via Cypress Street, concrete, 30 feet wide, from Broadway, concrete, 40-45 feet wide.	Via Cypress Street, concrete, 30 feet wide, from Broadway, concrete, 40-45 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 4-inch line.	Through 4-inch line.	Through 4-inch line.
ELECTRIC POWER (Available to Vessels)	A.C., 110/220/440 volts.	A.C., 110/220/440 volts.	A.C., 110/220/440 volts.
FIRE PROTECTION (Other than City)	Hydrants, hose, hand extinguishers, and security patrol.	Pumps, hose, hand extinguishers, and security patrol.	Pumps, hose, hand extinguishers, and security patrol.
REMARKS	One 1,500-ton tilt-beam side-launch way located adjacent to wharf; marine repair plant located at rear; welding connections available.	Wharf equipped with lines for supplying acetylene gas, oxygen, and compressed air. One 1,000-ton marine railway is located in trapezoidal-shaped, steel bulkheaded slip located between wharf and Ref. No. 177.	One 8-, two 6-, one 4-, and two 2-inch utility pipelines, one 12-inch vacuum line, and one 4-inch compressed air line, extend to wharf from gas freeing plant in rear.

Corps of Engineers Port Code No.	60370 Dock Code No. 624	60370 Dock Code No. 624	60370 Dock Code No. 626
REFERENCE NUMBER ON MAP NO. 3	178	179	180
NAME	Buffalo Marine Service, Upper Mooring.	Buffalo Marine Service Lower Mooring	Stauffer Chemical Co., Manchester Dock.
LOCATION ON WATERFRONT	South side of Harrisburg Bend, between foot of East Elm and Erath Streets. 8205 E. Erath Street	South side of Harrisburg Bend, above foot of Erath Street extended. 8205 E. Erath Street	Right bank Harrisburg Bend, above lower junction with Houston Ship Channel. 8615 Manchester Avenue
OWNED BY	Milby Estate.	Milby Estate.	Stauffer Chemical Co., Division of Rhone Poulenc Inc.
OPERATED BY	Buffalo Marine Service, Inc.	Buffalo Marine Service, Inc.	Stauffer Chemical Co., Division of Rhone Poulenc Inc.
PURPOSE FOR WHICH USED	Mooring company-owned equipment for storage and repair.	Mooring company-owned floating equipment.	Receipt of sulfuric acid, bulk liquid sulphur, and liquid alum; shipment of spent sulfuric acid.
TYPE OF CONSTRUCTION	Steel and timber bulkhead with solid fill.	Grounded barge, with 30- by 3-foot steel approach and natural bank with shore moorings.	Steel sheet pile bulkhead with concrete-surfaced solid fill, fronted by timber fender system.

DESCRIPTION	Face			Face			Face		
Dimensions (Feet)	300			195			713+322+282		
Depth Alongside at MLT Do.	10			8			10		
Breasting Distance Do.	300			310 w/bank			713+322+282		
Total Berthing Space Do.	300			310			713+322+282		
Width of Apron Do.	Open.			Open.			Open.		

Height of Deck at MLT Do.	4.5	4	7
Load Capacity (Lbs per Sq. Ft.)	-	-	-
Lighted or Unlighted	Lighted.	Unlighted.	Lighted.
MECHANICAL HANDLING FACILITIES	None.	None.	Two 1/2-ton hand-operated and one electric mast-and-boom derricks for handling hose; and ten 4-inch swivel-jointed loading arms.
RAILWAY CONNECTIONS	None.	None.	Trackage serving chemical plant in rear connects with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via Erath Street, asphalt, various widths, from Broadway, concrete, 50 feet wide.	Via Erath Street, asphalt, various widths, from Broadway, concrete, 50 feet wide.	Via plant road, asphalt, 25-35 feet wide, from Manchester Avenue, concrete, 45 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 4-inch line with hose connections.	None.	Through 2-inch line with connections.
ELECTRIC POWER (Available to Vessels)	A.C., 110/220 volts.	None.	A.C., 110/440 volts.
FIRE PROTECTION (Other than City)	Water line, hose, and hand extinguishers.	None.	Hydrants, water lines, hose, hand extinguishers, and security patrol.
REMARKS	Marine repair shop located at rear.	-	One 8-, and three 6-inch pipelines extend from wharf to 11 fresh acid storage tanks, total capacity 32,600 tons, and 13 spent acid storage tanks, total capacity 44,200 tons. One 8-inch steam-traced pipeline, tracer extends from wharf to 2 steel, liquid sulphur storage tanks, total capacity 8,000 tons. One 6-inch pipeline extends from wharf to two alum storage tanks, total capacity 342,000 gallons.

Corps of Engineers Port Code No.	60370 Dock Code No. 629	60370 Dock Code No. 629	60370 Dock Code No. 62
REFERENCE NUMBER ON MAP NO. 3	101	102	103
NAME	Lone Star Industries, Houston Cement Plant Dock.	Lone Star Industries, Barge Dock.	Lone Star Industrier Wharf.
LOCATION ON WATERFRONT	Right bank, Houston Ship Channel, approximately 500 feet above East Loop Freeway (Interstate Highway 610) Bridge. Manchester Ave.	Right bank, Houston Ship Channel, approximately 500 feet above East Loop Freeway (Interstate Highway 610) Bridge. Manchester Ave.	Right bank, Houston Ship Channel, above East Loop Freeway (Interstate Highway 610) Bridge. Manchester Ave.
OWNED BY	Lone Star Industries, Inc.	Lone Star Industries, Inc.	Lone Star Industries, Inc.
OPERATED BY	Lone Star Industries, Inc.	Not operated.	Not operated.
PURPOSE FOR WHICH USED	Receipt and shipment of bulk cement.	Not used.	Not used.
TYPE OF CONSTRUCTION	Timber pile, timber-decked wharf with 60- by 5-foot timber-decked walkway approach.	Timber pile, timberdecked wharf; 5 steel mooring dolphins in line with face.	Timber pile, part timber- and part concrete-decked, offshore wharf with 75- by 5-foot approach. Rows of timber breasting dolphins on each side of wharf in line with face are connected by catwalks.

DESCRIPTION	Face	Sides		Face	Sides		Face		
Dimensions (Feet)	30	30, each		18	30, each		31		
Depth Alongside at MLT Do.	12	12		10-12	-		16		
Breasting Distance Do.	400	-		250 w/dlph	-		400 w/dlph		
Total Berthing Space Do.	400	-		250 w/dlph	-		400 w/dlph		
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	15			12, approx.			16,wharf; 6, catwalk		
Load Capacity (Lbs per Sq. Ft.)	-			-			500, wharf		
Lighted or Unlighted	Unlighted.			Unlighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	None. (See Remarks.)	None.	None.
RAILWAY CONNECTIONS	None.	None.	Plant trackage in rear connects with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via plant road, shell, 18 feet wide, from Manchester Avenue, concrete, 45 feet wide.	Via private road, shell, 18 feet wide, from Manchester Avenue,concrete, 45 feet wide.	Via East Loop South (under Interstate Highway 610 bridge approach) and Concrete Street, 20-30 feet wide, from Manchester Avenue.
WATER SUPPLY (Available to Vessels)	None.	None.	Through 2 1/2-inch line.
ELECTRIC POWER (Available to Vessels)	None.	None.	A.C., 110/440 volts.
FIRE PROTECTION (Other than City)	None.	None.	Hydrants, water line, and hose.
REMARKS	Two 12- and two 10-inch pneumatic pipelines extend from wharf to 34 cement storage silos with interstices, located at cement plant in rear, total capacity 47,000 tons; bulk cement loading rate 175 tons per hour; unloading rate 120 tons per hour.	At time of survey, approximately 600 feet of mooring space along natural bank above wharf was leased to Hollywood Marine, Inc.,for mooring bunkering barges. Thirty acres of open storage area are located at rear.	One 12- and one 10-inch pipelines extend from wharf to 34 cement storage silos with interstices, located at cement plant in rear, total capacity 47,000 tons; bulk cement loading rate 175 tons per hour and unloading rate 120 tons per hour - inactive at time of survey.

Corps of Engineers Port Code No.	60370 Dock Code No. 630	60370 Dock Code No. 631	60370 Dock Code No. 633
REFERENCE NUMBER ON MAP NO. 3	184	185	186
NAME	Port of Houston, Manchester Bulk Commodity Wharf No. 1.	Port of Houston, Manchester Wharf No. 2.	Port of Houston, Manchester Wharf No. 3.
LOCATION ON WATERFRONT	Manchester, right bank of Houston Ship Channel, below East Loop Freeway (Interstate Highway 610) Bridge. Manchester Avenue	Manchester, right bank of Houston Ship Channel, approximately 450 feet below East Loop Freeway (Interstate Highway 610) Bridge. 9100 Becker Street	Manchester, right bank of Houston Ship Channel, approximately 850 feet below East Loop Freeway (Interstate Highway 610) Bridge. 9300 East Avenue South
OWNED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Port of Houston Authority and Oxid, Inc., Division of Chemical Exchange Industries, Inc.	Port of Houston Authority and El Campo Rice Milling Co., Inc.	Port of Houston Authority; Cargill Inc.; South Coast Terminal; Hill Petroleum Co.; and Westway Trading Corp. Houston
PURPOSE FOR WHICH USED	Receipt of petroleum products, asphalt, and petrochemicals.	Shipment of bulk and bagged rice; mooring vessels.	Receipt and shipment of petroleum products, chemicals, petrochemicals, and other bulk liquid commodities; receipt of molasses and caustic soda.
TYPE OF CONSTRUCTION	Timber pile, timber-decked, offshore wharf with 50- by 16-foot timber approach extending from timber bulkhead with solid fill; timber breasting dolphins fronting and in line with face on upper side.	Concrete retaining wall with concrete-surfaced solid fill on timber relieving platform supported by timber piles fronting timber bulkhead with solid fill; timber fender system along face.	Timber pile, concrete-decked, offshore wharf; two 150- by 20-foot timber approaches extending from wharf over timber bulkhead with solid fill to high bank in rear; timber fender system along face.

DESCRIPTION	Face	Sides		Face			Face	Lower side	
Dimensions (Feet)	206	16, each		500			500	22	
Depth Alongside at MLT Do.	32	-		32			32	32	
Breasting Distance Do.	447 w/dlph	-		500			500	-	
Total Berthing Space Do.	447 w/dlph	-		500			500	-	
Width of Apron Do.	Open.			20			Open.		
Height of Deck at MLT Do.	15			15			15		
Load Capacity (Lbs per Sq. Ft.)	-			500			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

TRANSIT SHEDS Number and Description	None.	One, steel frame, metal-covered; concrete floor.	None.
Length and Width (Feet)		481x181	
Height Inside Do.		12	
Floor Area for Cargo (Sq. Ft.)		58,350	
Load Capacity (Lbs. per Sq. Ft.)		500	
Cargo Doors		Shipside: eight, 12x12; rear: twelve, 12x11; east end: one, 30x20 to truck platform; and one, 12x12.	
MECHANICAL HANDLING FACILITIES	One 3-ton, electrically derrick with 40-foot boom for handling hose; and use of mobile cranes and stevedore equipment described under Ref. Nos. 128.	Use of mobile cranes and stevedore equipment described under Ref. Nos. 128. Grain gallery extends along face of wharf with 5 spouts loading a hopper and a 36-inch, electric belt conveyor with rotating vessel-loading spout system mounted on a parallel gantry; track at face; loading rate 500 tons per hour; an approach gallery with one 32-inch wide, electric, belt conveyor extends to wharf from grain elevator in rear.	One 1 1/2-ton, pneumatic, stiff-leg derrick with 42-foot boom mounted on bull wheel for handling hose; located on 20-by 20-foot timber platform at rear of center of wharf.
RAILWAY CONNECTIONS	Port Terminal Railroad: Two surface tracks extend along shore in rear of face.	Port Terminal Railroad: Four platform-level tracks along rear of transit shed.	Port Terminal Railroad: Surface tracks in rear.
HIGHWAY CONNECTIONS	Via driveway, shell, various widths, from East Loop South, concrete, 20-30 feet wide, from Manchester Avenue.	Via driveway, shell, various widths, from East Loop South, concrete, 20-30 feet wide, from Manchester Avenue.	Via driveway, shell, various widths, from East Loop South, concrete, 20-30 feet wide, from Manchester Avenue.
WATER SUPPLY (Available to Vessels)	Through 2-inch line.	Through 2-inch line.	Through line with 2-inch hose connections.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 120/240/440 volts.	None.
FIRE PROTECTION (Other than City)	Hydrants and hose connections.	Hydrants, hose, hand extinguishers, and security patrol.	Hydrants, hose, hand extinguishers, monitor nozzle, and watchmen.
REMARKS	Oxid, Inc.: Two 6-inch pipelines extend from wharf to 3 steel storage tanks at rear, total capacity 39,700 barrels. Face of wharf is in line and contiguous with face of adjacent Manchester Wharf No. 2 (Ref. No. 185).	The Elco Shipside Elevator, located 600 feet in rear of wharf, has 52 storage silos and 49 storage bins, total capacity 60,000 long tons. Face of wharf is in line and contiguous with faces of adjacent wharves (Ref. Nos. 184 and 186). Trucks have access to wharf apron and to interior of transit shed.	Cargill Inc.: One 10-inch pipeline extends to 12 steel, molasses storage tanks, total capacity 10,469,540 gallons; one 6-inch pipeline extends to one 3,000 gallon, steel, caustic soda storage tank. South Coast Terminal: Six 6-inch pipelines extend from wharf to 41 steel storage tanks, total capacity 97,500 barrels. Hill Petroleum Co.: Thirteen 8-, and two 6-inch pipelines, and one [illegible]-inch slop line extend to 76 steel petrochemical storage tanks located at plant behind Ref. No. 189, total capacity 850,900 barrels. Face of wharf is in line and contiguous with face of adjacent Manchester Wharf No. 2 (Ref. No. 185).

Corps of Engineers Port Code No.	60370 Dock Code No. 634	60370 Dock Code No. 634	60370 Dock Code No. 645
REFERENCE NUMBER ON MAP NO. 3	187	188	189
NAME	Port of Houston, Manchester Fireboat Dock.	Port of Houston, Manchester Mooring.	Hill Petroleum Co., Barge Dock No. 4.
LOCATION ON WATERFRONT	Manchester, right bank of Houston Ship Channel, approximately 0.25 mile below East Loop Freeway (Interstate Highway 610) Bridge. Manchester Avenue	Manchester, right bank of Houston Ship Channel, approximately 0.3 mile below East Loop Freeway (Interstate Highway 610) Bridge. Manchester Avenue	Manchester, right bank, Houston Ship Channel, approximately 0.5 mile above entrance to Sims Bayou. 9400 Concrete St.
OWNED BY	Port of Houston Authority.	Port of Houston Authority.	Hill Petroleum Co.
OPERATED BY	Port of Houston Authority.	Port of Houston Authority.	Hill Petroleum Co.
PURPOSE FOR WHICH USED	Mooring fireboat "J. S. Bracewell" along west side of slip and Port Authority floating equipment along east side.	Occasional mooring of fireboat and work barge "Vernon Bailey."	Receipt of petroleum blending stocks; shipment of petroleum products by barge.
TYPE OF CONSTRUCTION	Slip formed by 2 parallel, timber pile, timber-decked, piers on east and west sides and timber bulkhead with solid fill at inner end.	Row of timber breasting dolphins with 115- by 3-foot timber approach to upper dolphin.	Timber pile, timber-decked, offshore wharf with 30- by 10-foot timber approach. Three steel and 2 timber breasting dolphins in line with face. Shore end of approach is reached via stairway from high bank in rear.

DESCRIPTION	Inner end of slip	Upper side	Lower side	Mooring dolphins			Face	Sides	
Dimensions (Feet)	80	98	80	40			41	10, each	
Depth Alongside at MLT Do.	3	3-20	3-20	20			20	-	
Breasting Distance Do.	50	120 *	80	40			250 w/dlph	-	
Total Berthing Space Do.	50	120	80	40			250 w/dlph	-	
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	3	5	5	3			6		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Partly lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	None.	None.	One pneumatic-, and one hand-operated mast-and-boom derricks for handling hose; and two 8-inch swivel-jointed loading arms.
RAILWAY CONNECTIONS	None	None.	Plant trackage in rear connects with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via road, concrete, 20 feet wide, from East Loop South, concrete, 20-30 feet wide.	Via road, concrete, 20 feet wide, from East Loop South, concrete, 20-30 feet wide.	Via private road, asphalt and concrete, 20 feet wide, from foot of Manchester Avenue, concrete, 45 feet wide.
WATER SUPPLY (Available to Vessels)	Through 1-inch line with 3/4-inch connections.	None.	Through 2-inch line.
ELECTRIC POWER (Available to Vessels)	A.C., 220 volts.	A.C., 220 volts.	None.
FIRE PROTECTION (Other than City)	Hand extinguishers and fireboat.	Hand extinguishers and fireboat.	Hydrants, hose, hand extinguishers, monitor nozzles, foam equipment, and fireboat connections.
REMARKS	*Lower side of Ref. No. 186 is in line with upper side of slip and is included in the berthing space indicated above. Building in rear provides accommodations and headquarters for fireboat crew.	Fireboat is moored here when vessels berthed at Manchester Wharf No. 3 (Ref. No. 186) block entrance to the Manchester Fireboat Dock (Ref. No. 187).	Two 10-, four 6-, and two 4-inch pipelines extend from wharf to 98 steel storage tanks located at plant and refinery in rear, total capacity 3,074,000 barrels; one 6-inch slop line extends from wharf to one 650 gallon storage tank; one 2-inch compressed air line, one 2-inch steam line, and one 2-inch vapor return line also serve wharf.

Corps of Engineers Port Code No.	60370 Dock Code No. 648	60370 Dock Code No. 649	60370 Dock Code No. 650
REFERENCE NUMBER ON MAP NO. 3	190	191	192
NAME	Hill Petroleum Company, Traweek Dock.	Manchester Terminal Corp., Wharf.	Houston Shell and Concrete Co. Landing.
LOCATION ON WATERFRONT	Manchester, right bank, Houston Ship Channel, approximately 0.4 mile above entrance to Sims Bayou. 9400 Concrete Street	Manchester, right bank of Houston Ship Channel, above entrance to Sims Bayou. 10000 Manchester Avenue	Right bank of Sims Bayou, below Port Terminal Railroad Bridge. 5700 Lawndale Avenue.
OWNED BY	Hill Petroleum Co.	Manchester Terminal Corp.	Port of Houston Authority.
OPERATED BY	Hill Petroleum Co.	Manchester Terminal Corp.	Houston Shell and Concrete Co. and McDonough Co.
PURPOSE FOR WHICH USED	Receipt of crude oil and petroleum blending stocks; shipment of petroleum products; bunkering tankers berthed at wharf.	Receipt and shipment of conventional and containerized general cargo in foreign and domestic trades.	Receipt of sand and gravel by barge; mooring barges and company-owned floating equipment.
TYPE OF CONSTRUCTION	Timber pile, timber-decked offshore wharf with 65- by 15-foot timber approach; one steel sheet pile, cellular breasting dolphin at each end of wharf in line with face.	Concrete pile, concrete-decked wharf extending from steel sheet pile bulkhead with solid fill.	Natural bank.

DESCRIPTION	Face	Sides		Face	Upper side	Lower side	Natural bank		
Dimensions (Feet)	152	20, each		1,520	85	30	500, approx.		
Depth Alongside at MLT Do.	34	-		34	-	-	5-10		
Breasting Distance Do.	188 w/dlph	-		1,520	-	-	500, approx		
Total Berthing Space Do.	700 w/mrg	-		1,520	-	-	500, approx		
Width of Apron Do.	Open.			25			Open.		

Height of Deck at MLT Do.	16	17	14
Load Capacity (Lbs per Sq. Ft.)	-	500	-
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
TRANSIT SHEDS Number and Description	None.	One - 2-story with concrete walls and floors.	None.
Length and Width (Feet)		1,300x120, each	
Height Inside Do.		11, each	
Floor Area for Cargo (Sq. Ft.)		900,000	
Load Capacity (Lbs. per Sq. Ft.)		500,1st fl; 200, 2d fl.	
Cargo Doors		Shipside: 1st floor, twelve, 15 by 10; 2d floor, twenty, 8 by 10; rear: 1st floor, twenty-one, 12 by 8; each end: 2d floor, one, each 12 by 8.	
MECHANICAL HANDLING FACILITIES	One 1 1/2-ton, pneumatic, stiff-leg derrick with 45-foot boom mounted on bull wheel for handling hose.	Two 125-, one 75-, and two 50-ton mobile cranes; one 1 3/4-ton mobile, hoist; twenty-six, 2 1/2, eight 3-, one 4-, two 6-, one 15-, and one 2-ton forklift trucks; and three 2 1/2, seven 3-, and one 4-ton lift trucks equipped with bale clamps.	One 50-ton, diesel, crawler crane with 60-foot boom equipped with 2 1/2-cubic yard clamshell bucket; one 10-cubic yard truck-loading hopper.
RAILWAY CONNECTIONS	Plant trackage in rear connects with Port Terminal Railroad.	Port Terminal Railroad: One surface track on apron joins 2 platform-level tracks between transit shed and storage warehouse; additional trackage serves terminal in rear.	None.
HIGHWAY CONNECTIONS	Via plant road, asphalt and concrete, 20 feet wide, from foot of Manchester Avenue, concrete, 45 feet wide.	Via road, asphalt, 20-30 feet wide, from foot of Manchester Avenue, concrete, 45 feet wide.	Via winding road, shell, 20 feet wide, from Lawndale Avenue, concrete, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through 3-inch line with 2 1/2-inch connections.	Through one 6-inch line with 2 1/2-inch hose connections.	None.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 110 volts.	A.C., 110/220 volts
FIRE PROTECTION (Other than City)	Hydrants, hose, hand extinguishers, 2 monitor nozzles, foam equipment, and fireboat connections.	One 100,000-gallon water tower, pumps, hydrants, hose, sprinkler system in transit shed, and security patrol.	Pumps, hose, and hand extinguishers.
REMARKS	Two 18-, two 14-, two 10--, two 8-, and three 6-inch pipelines, and one 6-inch slop line extend from wharf to the 98 petroleum products storage tanks described under Ref. No. 189, and also to 8 crude oil storage tanks, total capacity 25,120 barrels; one 2-inch steam line serve wharf.	Four storage warehouse buildings located in rear (S.W. Ref. No. 2). Approximately 21.8 acres of open storage area available at terminal.	No storage at site. Haul out by truck only to concrete plant.

Corps of Engineers Port Code No.	60370 Dock Code No. 650			60370 Dock Code No. 650			60370 Dock Code No. 65		
REFERENCE NUMBER ON MAP NO. 3	193			194			195		
NAME	Bacon Towing Co. Landing.			TXTX Marine Dock.			Texas Petrochemicals Dock B.		
LOCATION ON WATERFRONT	Right bank of Sims Bayou, approximately 0.4 mile above entrance. 6500 Lawndale Avenue.			Right bank of Sims Bayou, approximately 0.2 mile above entrance. 9847 Lawndale Avenue			Right bank, Houston Ship Channel, upper side of Clinton Island Turning Basin. 9901 Lawndale Ave.		
OWNED BY	Port of Houston Authority.			TXTX Marine, Inc.			Texas Petrochemicals, Inc.		
OPERATED BY	Bacon Towing Co, Inc.			TXTX Marine, Inc.			Texas Petrochemicals, Inc.		
PURPOSE FOR WHICH USED	Mooring small vessels and barges for fleeting.			Shipment of coke.			Receipt and shipment of petrochemicals.		
TYPE OF CONSTRUCTION	Natural bank.			Natural bank fronted by 6 timber pile shore moorings.			Timber pile, timber-decked, offshore wharf with 117- by 12-foot approach to upper end; one steel sheet pile, cellular breasting dolphin at each end in line with face; connected by catwalks.		
DESCRIPTION	Natural bank			Natural bank			Face	Sides	
Dimensions (Feet)	4,000,approx			1,800			105	32, each	
Depth Alongside at MLT Do.	6-12			6-10			32	-	
Breasting Distance Do.	4,000 approx			1,800			273 w/dlph	-	
Total Berthing Space Do.	4,000 approx			1,800			273 w/dlph	-	
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	8			14			14		
Load Capacity (Lbs per Sq. Ft.)	-			-			250		
Lighted or Unlighted	Unlighted.			Lighted.			Lighted.		
MECHANICAL HANDLING FACILITIES	None.			One electric, vessel loader with 107-foot conveyor boom, equipped with loading spout and trimmer, served by 48-inch electric belt-conveyor system, loading rate 700 tons per hour. Three diesel, mobile, front-end loaders with 8-yard buckets, one bulldozer, and 2 backhoes. One receiving hopper serves a 48-inch electric belt conveyor system extending along rear of wharf to open storage area in rear.			Three 6-inch, counterweighted, swivel-jointed, loading arms.		
RAILWAY CONNECTIONS	None.			Trackage in rear connects with Lyondell Petrochemical Co. refinery trackage.			None.		
HIGHWAY CONNECTIONS	Via winding road, shell, 20 feet wide, from Lawndale Avenue, concrete, 40 feet wide.			Via winding road, shell, 20 feet wide, from Lawndale Avenue, concrete, 40 feet wide.			Via winding road, shell, 20 feet wide, from Lawndale Avenue, concrete, 40 feet wide.		
WATER SUPPLY (Available to Vessels)	Through one 1-inch line.			Through 6-inch line with 2-inch connections.			Through 8-inch line with 2 1/2-inch connections.		
ELECTRIC POWER (Available to Vessels)	A.C., 110/220 volts.			A.C., 440 volts.			A.C., 120 volts.		
FIRE PROTECTION (Other than City)	Water line and hand extinguishers.			Hydrants, hand extinguishers, hose, and water line.			Hydrants, monitors, chemical carts, hand extinguishers, and sprinkler system at wharf.		
REMARKS	-			2-acre open storage area in rear has capacity for 200,000 tons of coke. Coke is received by rail car from Lyondell Petrochemical Co. Refinery.			Five 6-inch pipelines extend from wharf to 25 steel storage tanks located at Texas Petrochemical, Inc. plant, 8600 Park Place, total capacity 566,830 barrels.		

Corps of Engineers Port Code No.	60370 Dock Code No. 653	60370 Dock Code No. 656	60370 Dock Code No. 657
REFERENCE NUMBER ON MAP NO. 3	196	197	198
NAME	Texas Petrochemicals Dock A.	Lyondell Petrochemical Co., Houston Refinery Dock "A".	Lyondell Petrochemical Co., Houston Refinery Dock "B".
LOCATION ON WATERFRONT	Right bank, Houston Ship Channel, upper side of Clinton Island Turning Basin. 9901 Lawndale Ave., Gate 10.	Right bank, Houston Ship Channel, inner end of Clinton Island Turning Basin. 12000 Lawndale Avenue	Right bank, Houston Ship Channel, lower side of Clinton Island Turning Basin. 12000 Lawndale Avenue
OWNED BY	Port of Houston Authority.	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.
OPERATED BY	Texas Petrochemicals, Inc.	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.
PURPOSE FOR WHICH USED	Receipt and shipment of petrochemicals.	Receipt and shipment of petroleum products and petrochemicals; receipt of crude oil by barge; loading bunkering barges.	Receipt and shipment of petrochemicals and petroleum products; receipt of crude oil; supplying harbor bunker barges and bunkering vessels.
TYPE OF CONSTRUCTION	Concrete pile, concrete-decked, offshore wharf with 117- by 12-foot approach to upper end; one steel sheet pile, cellular breasting dolphin at each end in line with face; connected by catwalks.	Steel pile, concrete-decked, offshore wharf with 70- by 10-foot concrete approach; 7 steel pipe pile dolphins in line with face.	Steel pile, concrete-decked, offshore wharf with 50- by 10-foot concrete approach, 4 steel pile, concrete-decked breasting platforms with rubber cushioned steel and timber fender systems in line with face; connected by steel catwalks.

DESCRIPTION	Face	Sides		Face	Sides		Face	Sides	
Dimensions (Feet)	105	32 , each		110	50, each		110	50, each	
Depth Alongside at MLT Do.	38	-		12	-		40	-	
Breasting Distance Do.	273 w/dlph	-		500 w/dlph	-		375 w/dlph	-	
Total Berthing Space Do.	273 w/dlph	-		500 w/dlph	-		800 w/mrg	-	
Width of Apron Do.	Open.			-			Open.		
Height of Deck at MLT Do.	14			16			16		
Load Capacity (Lbs per Sq. Ft.)	250			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One 2 1/2-ton, electric, stiff-leg derrick with 42-foot boom having a 30-foot outboard reach for handling hose; and three 6-inch, counterweighted, swivel-jointed, loading arms.	Two 10-, and four 8-inch swivel-jointed loading arms; and two 1-ton electric, traveling hoists, each with 20-foot outboard reach.	Two 12-, three 10-, and two 8-inch, swivel-jointed loading arms; two 1-ton, electric traveling hoists each with 20-foot outboard reach.
RAILWAY CONNECTIONS	None.	Trackage serving refinery in rear connect with Port Terminal Railroad and tracks of Southern Pacific Transportation Co.	Trackage serving refinery in rear connect with Port Terminal Railroad and tracks of Southern Pacific Transportation Co.
HIGHWAY CONNECTIONS	Via winding road, shell, 20 feet wide, from Lawndale Avenue, concrete, 40 feet wide.	Via plant road, asphalt, 20 feet wide, from Lawndale Avenue, concrete, 40 feet wide.	Via plant roads, asphalt, 20 feet wide, from Lawndale Avenue, concrete, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through 8-inch line with 2 1/2-inch connections.	Through one 2-inch line.	Through 2-inch line.
ELECTRIC POWER (Available to Vessels)	A.C., 120 volts.	None.	None.
FIRE PROTECTION (Other than City)	Hydrants, monitors, chemical carts, hand extinguishers, and sprinkler system at wharf.	Monitors, foam system, hand extinguishers, chemical carts, fire trucks, and security patrol.	Monitors, foam system, hand extinguishers, chemical carts, fire trucks, and security patrol.
REMARKS	Five 6-inch pipelines extend from wharf to 25 steel storage tankage described under Ref. No. 195.	Two 12-, four 10-, seven 8-, and four 6-inch pipelines extend from wharf to 121 steel storage tanks at refinery in rear, total capacity 9,316,000 barrels.	One 24-, one 18-, three 16-,two 12-, two 10-, and ten 8-inch pipelines extend to refinery and storage tanks described under Ref. No. 197. Also, one 16-inch ballast pipeline extends from wharf to 2 steel storage tanks, total capacity 220,000 barrels.

Corps of Engineers Port Code No.	60370 Dock Code No. 657	60370 Dock Code No. 657	60370 Dock Code No. 669
REFERENCE NUMBER ON MAP NO. 3	199	200	201
NAME	Lyondell Petrochemical Company, Houston Refinery Dock "C".	Lyondell Petrochemical Company, Houston Refinery Dock "D".	Gulf Coast Waste Disposal Authority, Upper Dock.
LOCATION ON WATERFRONT	Right bank, Houston Ship Channel, approximately 850 feet below Clinton Island Turning Basin. 12000 Lawndale Ave.	Right bank, Houston Ship Channel, approximately 850 feet below Clinton Island Turning Basin. 12000 Lawndale Ave.	Pasadena, right bank, Houston Ship Channel, approximately 450 feet below entrance to Vince Bayou. 5837 Northdale Road
OWNED BY	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	Gulf Coast Waste Disposal Authority.
OPERATED BY	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	McGinnes Industrial Maintenance Corp.
PURPOSE FOR WHICH USED	Receipt and shipment of petrochemicals and petroleum products; receipt of crude oil; supplying harbor bunker barges and bunkering vessels using wharf.	Shipment of liquid sulphur; occasional shipment of packaged petroleum products by barge.	Loading sludge into barges for disposal.
TYPE OF CONSTRUCTION	Concrete-filled, steel pipe pile, concrete-decked wharf extending over low-level, steel sheet pile bulkhead with solid fill; one steel breasting dolphin located off each side in line with face of wharf.	Steel sheet pile bulkhead with solid fill fronted by timber fender system; one 34-, by 7-foot steel pile, steel-decked loading ramp is located at center of bulkhead.	Row of 3 timber breasting dolphins with timber catwalk approach to center dolphin.

DESCRIPTION	Face	Sides		Face	Sides		Row of dolphins		
Dimensions (Feet)	276	60, each		350	19, each		200		
Depth Alongside at MLT Do.	36	-		20	-		8 -10 -		
Breasting Distance Do.	490 w/dlph	-		350	-		200		
Total Berthing Space Do.	490 w/dlph	-		350	-		200		
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLT Do.	14			15			-		
Load Capacity (Lbs per Sq. Ft.)	500			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Unlighted.		

MECHANICAL HANDLING FACILITIES	One 12-, and ten 6-inch swivel-jointed loading arms; one 7 1/2-ton winch for handling lubricating oil hoses and for hook-up to Lyondell barge "Birmingham."	One 8-inch, swivel-jointed loading arm.	None. (See Remarks.)
RAILWAY CONNECTIONS	Trackage serving refinery in rear connect with Port Terminal Railroad and tracks of Southern Pacific Transportation Co.	Trackage serving refinery in rear connect with Port Terminal Railroad and tracks of Southern Pacific Transportation Co.	None.
HIGHWAY CONNECTIONS	Via plant roads, asphalt, 20 feet wide, from Lawndale Avenue, concrete, 40 feet wide.	Via plant roads, asphalt, 20 feet wide, from Lawndale Avenue, concrete, 40 feet wide.	Via North Richey Street, asphalt, 25-40 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 2-inch line.	Through one 2-inch line.	None.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 440 volts.	None.
FIRE PROTECTION (Other than City)	Monitors, foam system, hand extinguishers, chemical carts, fire trucks, and security patrol.	Monitors, foam system, hand extinguishers, chemical carts, fire trucks, and security patrol.	None.
REMARKS	Warehouse building at rear is used for storage, drumming, and packaging petroleum products. One 18-, one 12-, fifteen 8-, three 6-, and six 4-inch pipelines, and one 16-inch ballast line extend from wharf to refinery and storage tanks described under Ref. Nos. 197 and 198. Also, one 8-inch slop line extends from wharf to 4 additional steel storage tanks, total capacity 92,000 barrels.	One 8-inch pipeline extends to wharf from 2 liquid sulphur storage tanks located at plant in rear, total capacity 6,000 tons.	Sludge is dredged from storage lagoons by dragline crane and placed in receiving hopper served by one 16-inch gravity-fed pipeline on timber trestle extending to center dolphin.

Corps of Engineers Port Code No.	60370 Dock Code No. 670	60370 Dock Code No. 673	60370 Dock Code No. 677
REFERENCE NUMBER ON MAP NO. 3	202	203	204
NAME	Gulf Coast Waste Disposal Authority, Lower Dock.	Simpson Pasadena Paper Co., Wharf.	Crown Central Petroleum Corp., Barge Slip.
LOCATION ON WATERFRONT	Pasadena, right bank, Houston Ship Channel, approximately 0.3 mile below entrance to Vince Bayou. 5837 Northdale Road	Pasadena, right bank, Houston Ship Channel, approximately 0.4 mile below entrance to Vince Bayou.	Pasadena, right bank, Houston Ship Channel, east side of slip, approximately 0.9 mile above Cotton Patch Bayou. North Witter Street.
OWNED BY	Gulf Coast Waste Disposal Authority.	Simpson Pasadena Paper Co.	Crown Central Petroleum Corp.
OPERATED BY	McGinnes Industrial Maintenance Corp.	Simpson Pasadena Paper Co.	Crown Central Petroleum Corp.
PURPOSE FOR WHICH USED	Loading sludge into barges for disposal.	Occasional receipt of spent caustic soda and shipment of wood pulp by barge.	Receipt and shipment of green petroleum coke.
TYPE OF CONSTRUCTION	Concrete pile, concrete-decked, offshore platform fronted by a row of 9 timber breasting dolphins with one rectangular-shaped concrete dolphin at each end; platform supports conveyor pipeline and swinging conveyor boom for loading barges.	Timber pile, timber-decked wharf fronted by steel and timber fender system; 7 timber pile breasting dolphins on lower side in line with face; connected by a 130- by 3-foot timber catwalk.	Lower side and inner end of slip formed by steel sheet pile bulkhead with concrete-surfaced solid fill; fronted by timber fender system.

DESCRIPTION	Face	Sides		Face	Sides		Inner end	Lower side	
Dimensions (Feet)	35	20, each		200	30, each		30	265	
Depth Alongside at MLT Do.	12	-		12	-		15	15	
Breasting Distance Do.	480 w/dlph	-		580	-		-	250	
Total Berthing Space Do.	480 w/dlph	-		580	-		-	250	
Width of Apron Do.	Open.			Open.			Open.	30	
Height of Deck at MLT Do.	17.5			15, approx.			10		
Load Capacity (Lbs per Sq. Ft.)	-			-			2,000		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One 8-inch pipeline supported on elevated steel trestle extends from waste sludge pit in rear to swinging conveyor boom, with 12-foot outboard reach, equipped with a vertical, barge-loading spout at outer end.	One mobile hoist with clamshell bucket for handling woodpulp; one hand-operated mast-and-boom derrick mounted on dolphin for handling hose.	One 100-ton, diesel, crawler crane with 40-foot boom, equipped with one 3- and one 5-cubic yard clamshell buckets, operating rate 200 tons per hour; one receiving hopper serves a 42-inch wide, electric, belt conveyor system extending along rear of wharf, to a crusher, then to a coke stacker at open storage area in rear; one diesel, mobile, front end loader with 5-cubic yard bucket loads a ground level hopper serving a 24-inch wide, electric, belt-conveyor system extending to calcining plant in rear.
RAILWAY CONNECTIONS	None.	Plant trackage in rear connects with Port Terminal Railroad.	Plant trackage in rear connects with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via North Richey Street, asphalt, 25-40 feet wide.	Via plant road, asphalt, 15 feet wide, from West Richey Access Road to the Washburn Tunnel.	Via plant road, gravel, 25 feet wide, from North Witter Street and State Highway 225.
WATER SUPPLY (Available to Vessels)	None.	Through 1-inch line with hose connections.	None.
ELECTRIC POWER (Available to Vessels)	A.C., 110 volts.	A.C., 440 volts.	None.
FIRE PROTECTION (Other than City)	Pumps, water lines, hose, hand extinguishers.	Hand extinguishers.	Wells, reservoir, pumps, hydrants, foam truck, and security patrol.
REMARKS	-	One 6-inch, pipeline extends from wharf to one 235,000 gallon, steel storage tank at plant in rear.	Slip is located over Washburn Highway Tunnel under Houston Ship Channel. Open storage area has capacity for 30,000 tons of coke.

Corps of Engineers Port Code No.	60370 Dock Code No. 677	60370 Dock Code No. 677	60370 Dock Code No. 69
REFERENCE NUMBER ON MAP NO. 3	205	206	207
NAME	Crown Central Petroleum Corp., Oil Dock.	Crown Central Petroleum Corp., Coke Wharf.	GATX Pasadena Terminal, Barge Dock No. 2.
LOCATION ON WATERFRONT	Pasadena, right bank, Houston Ship Channel, approximately 0.7 mile above Cotton Patch Bayou. North Witter Street.	Pasadena, right bank, Houston Ship Channel, approximately 0.8 mile above Cotton Patch Bayou. North Witter Street.	Pasadena, right bank, Houston Ship Channel, approximately 0.2 mile above Cotton Patch Bayou. 530 N. Witter
OWNED BY	Crown Central Petroleum Corp.	Crown Central Petroleum Corp.	GATX Terminals Corp.
OPERATED BY	Crown Central Petroleum Corp.	Crown Central Petroleum Corp.	GATX Terminals Corp.
PURPOSE FOR WHICH USED	Receipt and shipment of petroleum products and petrochemicals; receipt of crude oil.	Shipment of calcined petroleum coke.	Receipt and shipment of petroleum products, petrochemicals, and other bulk liquid commodities.
TYPE OF CONSTRUCTION	Steel pipe pile, concrete-decked, offshore wharf with 25- by 20-foot approach extending from 650-foot steel sheet pile bulkhead with solid fill; 4 steel pipe pile breasting dolphins in line with face.	Timber pile, timber-decked, offshore wharf with 37- by 10-foot timber approach extending from steel sheet pile bulkhead with solid fill; row of timber pile breasting dolphins in line with face.	Concrete pile, concrete-decked, offshore wharf with 30- by 15-foot concrete approach; 5 concrete-filled, steel breasting dolphins in line with and one fronting face.

DESCRIPTION	Face	Sides		Face	Sides		Face	Sides	
Dimensions (Feet)	88	35, each		38	30, each		40	30, each	
Depth Alongside at MLT Do.	39	-		39	-		17	-	
Breasting Distance Do.	310 w/dlph	-		640 w/dlph	-		320 w/dlph	-	
Total Berthing Space Do.	310			640 w/dlph	-		320 w/dlph	-	
Width of Apron Do.	35			30			30		
Height of Deck at MLT Do.	18			15			10		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One 12 1/2-ton, hydraulic crane with 70-foot boom for handling hose.	One electric, vessel loader with 72-foot hinged conveyor boom having 35-foot outboard reach, equipped with loading spout and trimmer, loading rate 1,000 tons per hour; one 36-inch covered, electric, belt-conveyor system extends to loader from storage silos in rear.	One 2 1/2-ton, pneumatic derrick with 27-foot boom for handling hose.
RAILWAY CONNECTIONS	Plant trackage in rear connects with Port Terminal Railroad.	Plant trackage in rear connects with Port Terminal Railroad.	Two surface tracks, capacity 28 cars, serve tank car loading rack at terminal in rear; connect with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via plant road, gravel, 25 feet wide, from North Witter Street and State Highway 225.	Via private road, gravel, 25 feet wide, from North Witter Street and State Highway 225.	Via North Witter Street, asphalt, 22 feet wide, from East Red Bluff Road.
WATER SUPPLY (Available to Vessels)	Through 2-inch line.	None.	Through 6-inch line with 2 1/2-inch connections..
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Wells, 6-inch fire main, reservoir, hydrants, foam truck, monitor nozzles, and hose reel.	Wells, 6-inch fire main, reservoir, hydrants, foam truck, monitor nozzles, and one hose reel.	Foam lines, hand extinguishers, fireboat connection, and security patrol.
REMARKS	One 18-, one 14-, three 12-, three 10-, three 8-, and one 6-inch pipelines extend from wharf to 50 steel storage tanks located in rear, total capacity 2,301,000 barrels. Compressed air, fresh water, and fire lines serve wharf. Breasting dolphins are in line with those fronting adjacent coke wharf (Ref. No. 206), providing for 950 feet of continuous berthing space.	Breasting dolphins are in line with those at adjacent wharf (Ref. No. 205), providing for 950 feet of continuous berthing space. Six steel silos in rear have total storage capacity for 24,000 tons. Calcining plant located in rear.	Three 8-inch pipelines and one 4-inch slop line extend from wharf to storage tanks described under Ref. No. 209, and one 8-inch loop line extends to wharf described under Ref. No. 209. Compressed air line also serves wharf.

Corps of Engineers Port Code No.	60370 Dock Code No. 686	60370 Dock Code No. 686	60370 Dock Code No. 687
REFERENCE NUMBER ON MAP NO. 3	208	209	210
NAME	GATX Pasadena Terminal, Barge Dock No. 1.	GATX Pasadena Terminal, Ship Dock.	John Bludworth Marine, West Dock.
LOCATION ON WATERFRONT	Pasadena, right bank, Houston Ship Channel, approximately 0.2 mile above Cotton Patch Bayou. 530 N. Witter	Pasadena, right bank, Houston Ship Channel, approximately 0.1 mile above Cotton Patch Bayou. 530 N. Witter	Pasadena, upper side of Cotton Patch Bayou, at entrance.
OWNED BY	GATX Terminals Corp.	GATX Terminals Corp.	John Bludworth Marine, Inc.
OPERATED BY	GATX Terminals Corp.	GATX Terminals Corp.	John Bludworth Marine, Inc.
PURPOSE FOR WHICH USED	Receipt and shipment of petroleum products, petrochemicals, and other bulk liquid commodities.	Receipt and shipment of petroleum products, petrochemicals, and other bulk liquid commodities.	Mooring barges and small vessels for repair; mooring floating drydocks.
TYPE OF CONSTRUCTION	Timber pile, timber-decked, offshore wharf with 80- by 6-foot timber approach; 6 concrete-filled, steel pipe breasting dolphins in line with and one fronting face.	Timber pile, timber-decked, offshore wharf with 125- by 8-foot approach to upper end; 5 breasting dolphins in line with face; steel sheet pile bulkhead with solid fill along bank in rear of lower side. Additional berthing for barges available at rear of face.	Concrete bulkhead with solid fill and natural bank along west side of Bayou.

DESCRIPTION	Face	Sides		Face	Sides		Face		
Dimensions (Feet)	38	20, each		75	21, each		400+600		
Depth Alongside at MLT Do.	17	-		40	-		12-13		
Breasting Distance Do.	320 w/dlph	-		230 w/dlph	-		1,000 w/bank		
Total Berthing Space Do.	320 w/dlph	-		230 w/dlph	-		1,000		
Width of Apron Do.	20			21			Open.		
Height of Deck at MLT Do.	10			12			4		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One 2 1/2-ton, pneumatically derrick with 27-foot boom for handling hose.	Two 1.6-ton, pneumatic, mast-and-boom derricks each with 27-foot boom for handling hose.	One 6-ton, electric, traveling, revolving, full-portal, gantry crane with 90-foot boom; two 10-ton, diesel, hydraulic, mobile cranes with 60-foot booms; and one 40-ton, diesel floating crane with 60-foot boom.
RAILWAY CONNECTIONS	Two surface tracks, capacity 28 cars, serve tank car loading rack at terminal in rear; connect with Port Terminal Railroad.	Two surface tracks, capacity 28 cars, serve tank car loading rack at terminal in rear; connect with Port Terminal Railroad.	Two surface tracks serving shipyard in rear connect with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via North Witter Street, asphalt, 22 feet wide, from East Red Bluff Road.	Via North Witter Street, asphalt, 22 feet wide, from East Red Bluff Road.	Via plant road, unimproved, 18 feet wide, from foot of North Woodier Street, asphalt, 22 feet wide.
WATER SUPPLY (Available to Vessels)	Through 6-inch line with 2 1/2-inch connections..	Through 6-inch line with 2 1/2-inch connections.	Well water through 6-inch line with 2 1/2-inch connections.
ELECTRIC POWER (Available to Vessels)	None.	None.	A.C., 110/220/440 volts.
FIRE PROTECTION (Other than City)	Foam lines, hand extinguishers, fireboat connection, and security patrol.	Foam lines, hand extinguishers, fireboat connection, and security patrol.	Pumps, water line, hose, and security patrol.
REMARKS	Three 8-inch pipelines, and one 4-inch slop line, extend from wharf to storage tanks described under Ref. No. 209, and one 8-inch loop line extends to adjacent wharf (Ref. No. 209). Compressed air line also serves wharf.	Three 16-, four 12-, one 10-, and one 8-inch pipelines extend from wharf to 64 steel storage tanks at terminal in rear, total capacity 4,656,000 barrels; one 4-inch slop line extends from wharf to one 20,000 gallon steel storage tank in rear. In addition, one 8-inch loop line extends from wharf to loading stations for direct transfer to tank cars and trucks.	One 1,800-, one 1,000-, one 800-, one 600-, and one 150-ton floating drydocks moored at bulkhead. Marine repair plant located in rear.

Corps of Engineers Port Code No.	60370 Dock Code No. 699	60370 Dock Code No. 699	60370 Dock Code No. 699
REFERENCE NUMBER ON MAP NO. 3	211	212	213
NAME	Mobil Mining and Minerals Co., Liquid Ammonia Barge Dock.	Mobil Mining and Minerals Co. West Dock, Barge and Ship Loader Dock.	Mobil Mining and Minerals Co., East Dock.
LOCATION ON WATERFRONT	Right bank, Houston Ship Channel, approximately 0.5 mile below Cotton Patch Bayou. Davison Road.	Right bank, Houston Ship Channel, approximately 0.6 mile below Cotton Patch Bayou. Davison Road.	Right bank, Houston Ship Channel, approximately 0.7 mile below Cotton Patch Bayou. Davison Road.
OWNED BY	Mobil Mining and Minerals Co.	Mobil Mining and Minerals Co.	Mobil Mining and Minerals Co.
OPERATED BY	Mobil Mining and Minerals Co.	Mobil Mining and Minerals Co.	Mobil Mining and Minerals Co.
PURPOSE FOR WHICH USED	Receipt of anhydrous ammonia by barge.	Shipment of dry bulk fertilizer by vessel and barge.	Receipt of phosphate rock.
TYPE OF CONSTRUCTION	Steel sheet pile bulkhead with solid fill; fronted by 6 offshore, rectangular-shaped, concrete, breasting dolphins supported on timber piles; a 40- by 16-foot, timber pile, concrete-decked pier extends from shore between dolphins; timber fenders protect outer sides of dolphins.	Timber pile, concrete-decked, offshore wharf with 55- by 43-foot approach. Row of timber breasting dolphins in line with face connected by walkways, east walkway continuing to East Dock (Ref. No. 213).	Part timber and part steel pile, concrete-decked, offshore wharf with 55- by 43-foot and 90- by 12-foot approaches; fronted by timber fender system.

DESCRIPTION	Face of piers	Sides		Face	Sides		Face	East side	West side
Dimensions (Feet)	16	40, each		143	45, each		155+460	37.5	45
Depth Alongside at MLT Do.	30	-		32	-		30	-	-
Breasting Distance Do.	52 w/dlph	-		470 w/dlph	-		615	-	-
Total Berthing Space Do.	264 w/dlph	-		470*			615	-	-
Width of Apron Do.	Open.			Open.			37.5 & 45		
Height of Deck at MLT Do.	8			8			10.5		
Load Capacity (Lbs per Sq. Ft.)	-			400			400		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One swivel-jointed, loading arm on pier with 6-inch flexible hose connection.	One loading tower with hinged, conveyor boom and loading spout equipped with trimming head is served by a 30-inch electric belt-conveyor system extending from plant in rear, rate 300 tons per hour.	One electric, traveling, unloading tower equipped with hinged, conveyor boom and marine leg served by a 30-inch electric belt conveyor system extending to storage facilities at plant in rear, unloading rate 900 tons per hour.
RAILWAY CONNECTIONS	Surface tracks serve plant in rear; connect with Port Terminal Railroad.	Three surface tracks along rear of wharf join additional plant trackage; connect with Port Terminal Railroad.	Three surface tracks along rear of wharf join additional plant trackage; connect with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via plant roads, asphalt, 18 feet wide, from Davison Road, asphalt, 22 feet wide, from State Highway 225.	Via plant roads, asphalt, 18 feet wide, from Davison Road, asphalt, 22 feet wide, from State Highway 225.	Via plant roads, asphalt, 18 feet wide, from Davison Road, asphalt, 22 feet wide, from State Highway 225.
WATER SUPPLY (Available to Vessels)	Through one 2-inch line with 1 1/2-inch hose connection.	Through 2-inch line.	Through 2-inch line.
ELECTRIC POWER (Available to Vessels)	None.	None.	A.C., 440 volts.
FIRE PROTECTION (Other than City)	Plant pumps, water lines, hydrants, hose, and hand extinguishers.	Pumps, water lines, hydrants, hose, and hand extinguishers.	Pumps, water lines, hydrants, hose, and hand extinguishers.
REMARKS	One 6-inch pipeline extends from face of pier to one 7,500-ton steel, anhydrous ammonia storage tank in rear.	*Faces of West and East Docks (Ref. Nos 212 and 213) and breasting dolphins are in line providing for a total of 1,060 feet of berthing space. Plant in rear has storage capacity for 40,000 tons of dry bulk fertilizer.	Storage bins and storage dome at plant in rear have total capacity for 46,000 tons of phosphate rock.

Corps of Engineers Port Code No.	60370 Dock Code No. 699	60370 Dock Code No. 705	60370 Dock Code No. 710
REFERENCE NUMBER ON MAP NO. 3	214	215	216
NAME	Mobil Mining and Minerals Co., Sulphur Dock.	Kerley AG Products, Barge Wharf.	Phillips Petroleum Co., Adams Terminal, Berths Nos. 8 and 9.
LOCATION ON WATERFRONT	Right bank, Houston Ship Channel, approximately 0.9 mile below Cotton Patch Bayou. Davison Road.	Right bank of Houston Ship Channel, approximately 1.6 miles below Cotton Patch Bayou. Jefferson Street.	Right bank of Houston Ship Channel, approximately 1,000 feet above foot of South Avenue extended. Jefferson Street.
OWNED BY	Mobil Mining and Minerals Co.	Kerley AG Products, Inc.	Phillips Petroleum Co.
OPERATED BY	Mobil Mining and Minerals Co.	Kerley AG Products, Inc.	Various operators.
PURPOSE FOR WHICH USED	Receipt of bulk liquid sulphur and sulfuric acid.	Receipt and shipment of bulk fertilizer.	Receipt and shipment of general cargo, steel products, and pipe in foreign and domestic trade.
TYPE OF CONSTRUCTION	Steel sheet pile bulkhead with concrete-surfaced solid fill; timber platform extensions on west side; and timber breasting dolphins off west side in line with face.	Steel pile, concrete-decked offshore wharf with 50- by 18-foot concrete approach from steel sheet pile bulkhead with solid fill; composite steel and concrete breasting dolphins fronting and in line with face.	Steel sheet pile bulkhead, fronted by concrete sheet pile bulkhead with solid fill and timber fender system.

DESCRIPTION	Face	East side	West side	Face	Sides		Face		
Dimensions (Feet)	24	30	10+10+10	61	45, each		960+100		
Depth Alongside at MLT Do.	15	-	-	28-34	-		22-25		
Breasting Distance Do.	165 w/dlph	-	-	430 w/dlph	-		960		
Total Berthing Space Do.	165	-	-	430	-		960		
Width of Apron Do.	Open.			Open.			Open.		

Height of Deck at MLT Do.	8	12	8
Load Capacity (Lbs per Sq. Ft.)	-	-	-
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
MECHANICAL HANDLING FACILITIES	One 6- and one 4-inch swivel-jointed, loading arms.	One fixed, electric, revolving, unloading tower equipped with 70-foot boom and 7 1/2 cubic yard, clamshell, trolley bucket unloads into a receiving hopper on wharf served by an inclined 24-inch, electric, belt conveyor in gallery extending to radial stacker at open storage area in rear, rate 500 tons per hour. Electric winches on upper and lower dolphins for positioning barges at tower.	None.
RAILWAY CONNECTIONS	Plant trackage in rear connects with Port Terminal Railroad.	Two surface tracks serve plant in rear; connect with Port Terminal Railroad.	None.
HIGHWAY CONNECTIONS	Via plant roads, asphalt, 18 feet wide, from Davison Road, asphalt, 22 feet wide, from State Highway No. 225.	Via plant road, asphalt, 22 feet wide, from Jefferson Street, concrete, 22 feet wide.	Via Jefferson Street, asphalt, 22 feet wide, from State Highway 225, asphalt, 40 feet wide.
WATER SUPPLY (Available to Vessels)	None.	One 2-inch line with one 1-inch connection.	Through one 3-inch line with 2-inch hose connections.
ELECTRIC POWER (Available to Vessels)	A.C., 220 volts.	A.C., 110/440 volts.	A.C.,110/440 volts.
FIRE PROTECTION (Other than City)	Pumps, water lines, hydrants, hose, and hand extinguishers.	Hydrant, hose, and hand extinguishers.	Plant fire department, water tower, pumps, hydrants, hose, hand extinguishers, and security patrol.
REMARKS	One 8-inch, insulated, steam-traced pipeline extends from wharf to one 3,000-ton capacity, insulated, bulk liquid sulphur storage tank in rear; and one 4-inch pipeline extends from wharf to 4 sulfuric acid storage tanks, total capacity 12,000 tons.	Stacker serves open storage area at rear and has capacity for 25,000 tons of fertilizer. Two 6-inch pipelines extend from wharf to 4 sulfuric acid storage tanks at plant in rear, total capacity 12,880 tons. At time of survey, sulfuric acid was not being handled at wharf.	Chemical plant, open storage area, and 1-story building "B" located in rear. One 10- and one 3-inch pipelines extend from wharf to Berth No. 7 (Ref. No. 217) and continue to 4 steel, aqua ammonia, storage tanks, total capacity 19,950,000 gallons and to 4 steel, spherical-shaped, anhydrous ammonia storage tanks, total capacity 5,300 tons. At time of survey, ammonia was not being handled at wharf.

Corps of Engineers Port Code No.	60370 Dock Code No. 711	60370 Dock Code No. 714	60370 Dock Code No. 714
REFERENCE NUMBER ON MAP NO. 3	217	218	219
NAME	Phillips Petroleum Co., Adams Terminal, Berths Nos. 4, 5, 6, and 7.	Ethyl Corp. Wharf.	Ethyl Corp. Barge Dock.
LOCATION ON WATERFRONT	Right bank of Houston Ship Channel, upper side of slip, above foot of South Avenue extended. Jefferson Street.	Right bank, Houston Ship Channel, approximately 0.3 mile below foot of South Street extended. South Avenue.	Right bank, Houston Ship Channel, approximately 0.3 mile below foot of South Street extended. South Avenue.
OWNED BY	Phillips Petroleum Co.	Ethyl Corp.	Ethyl Corp.
OPERATED BY	Phillips Petroleum Co., and various other operators.	Not operated.	Ethyl Corp.
PURPOSE FOR WHICH USED	Receipt and shipment of general cargo in foreign and domestic trade; Berth No. 4 receipt of styrene; and occasional receipt and shipment of chemicals and petrochemicals.	Not used.	Receipt of olefin, alum, and fuel oil blends.
TYPE OF CONSTRUCTION	Steel sheet pile bulkhead with solid fill; fronted by timber fender system.	Timber pile, concrete-decked, offshore wharf with 53- by 24-foot approach; 4 timber pile breasting dolphins in line with face, upper dolphins connected by 3-foot-wide timber walkway.	Prestressed concrete pile, concrete-decked offshore wharf with 15- by 20-foot approach; 5 steel breasting dolphins in line with face.

DESCRIPTION	Face			Face	Sides		Face	Sides	
Dimensions (Feet)	1,780			100	24		30	20, each	
Depth Alongside at MLT Do.	22-35			20	-		17	-	
Breasting Distance Do.	1,780			165 w/dlph	-		175 w/dlph	-	
Total Berthing Space Do.	1,780			165 w/dlph	-		175	-	
Width of Apron Do.	Open.			Open.			-		
Height of Deck at MLT Do.	8			15			11.5		
Load Capacity (Lbs per Sq. Ft.)	-			720			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	None.	One 25-ton, diesel, mobile crane with 50-foot boom; 3 hand-operated davits for handling hose. Stevedore equipment available as required.	None.
RAILWAY CONNECTIONS	One surface track on wharf and 2 surface tracks serving undertrack pits in rear of Berth No. 7 join additional plant trackage in rear; connect with Port Terminal Railroad.	Plant trackage in rear connects with Port Terminal Railroad.	None.
HIGHWAY CONNECTIONS	Via Deepwater Road, asphalt, 22 feet wide, from State Highway 225, asphalt, 40 feet wide.	Via plant road, concrete, 32 feet wide, from South Avenue, concrete, 22 feet wide, and State Highway 225, concrete, 40 feet wide.	Via plant road, concrete, 32 feet wide, from South Avenue, concrete, 22 feet wide, and State Highway 225, concrete, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through 3-inch line with 2-inch connections.	Through 2-inch line with 1 1/2-inch connections.	None.
ELECTRIC POWER (Available to Vessels)	A.C., 110/440 volts.	A.C., 120/240 volts.	None.
FIRE PROTECTION (Other than City)	Hydrants, hose, and hand extinguishers.	Pumps, 8-inch fire line, hydrants, hose, hand extinguishers, and plant fire department.	Hydrants and monitor nozzles.
REMARKS	One 12-inch pipeline extends to Berth No. 7 and one 8-inch pipeline extends to Berths Nos. 4 and 7 from one 180,000-barrel-capacity liquefied petroleum gas storage tank. At time of survey, pipelines were not in use.	One 10-, one 8-, one 6-, one 4-, and three 3-inch pipelines extend from wharf to 11 steel storage tanks, total capacity 140,000 barrels.	One 10- one 8-, and one 6-inch, pipelines extend from wharf to tankage described under Ref. No. 218.

Corps of Engineers Port Code No.	60370 Dock Code No. 733	60370 Dock Code No. 735	60370 Dock Code No. 750
REFERENCE NUMBER ON MAP NO. 3	220	221	222
NAME	Georgia-Gulf Corp., Ship Dock.	Tenneco Pasadena Wharf.	Shell Oil Co., Barge Mooring.
LOCATION ON WATERFRONT	Pasadena, right bank, Houston Ship Channel, approximately 1.3 miles above Boggy Bayou Basin. 3503 Pasadena Freeway.	Pasadena, right bank of Houston Ship Channel, approximately 1.1 miles above Boggy Bayou Basin. 4403 LaPorte Road, Pasadena	Deer Park, upper side of Boggy Bayou Basin. LaPorte Road.
OWNED BY	Georgia-Gulf Corp.	Tenneco Oil Co., Tenn-USS, and Occidental Chemical Corp.	Shell Oil Co.
OPERATED BY	Georgia-Gulf Corp.	Tenneco Oil Co., Tenn-USS, and Occidental Chemical Corp.	Shell Oil Co.
PURPOSE FOR WHICH USED	Receipt of propylene and benzene; shipment of cumene.	Shipment of anhydrous ammonia, methanol, and ethyl hexanoyl; receipt of arthoxylene.	Mooring barges awaiting berth at Ref. Nos. 224-227.
TYPE OF CONSTRUCTION	Prestressed concrete pile, concrete-decked offshore wharf with parallel 300- by 15-foot driveway and 300-by 12-foot pipeline approaches.	Timber pile, timber-decked, offshore wharf with 115- by 18-foot approach; 6 rectangular-shaped, concrete-capped, mooring dolphins in line with face; connected by walkways.	Row of 13 steel breasting dolphins.

DESCRIPTION	Face	Sides		Face	Sides		Breasting dolphins		
Dimensions (Feet)	90	60, each		90	25, each		1,200		
Depth Alongside at MLT Do.	42	-		32	-		20		
Breasting Distance Do.	490 w/dlph	-		500 w/dlph	-		1,200		
Total Berthing Space Do.	900 w/mrg	-		500 w/dlph	-		1,200		
Width of Apron Do.	60			Open.			-		
Height of Deck at MLT Do.	21.5			12			-		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Unlighted.		

MECHANICAL HANDLING FACILITIES	Two 8-inch, swivel-jointed loading arms.	One elevated steel structure with 2 hand-operated hoists and 3 mast-and-boom derricks used for handling hose.	None.
RAILWAY CONNECTIONS	One surface track serving plant in rear connects with Port Terminal Railroad.	Plant trackage in rear connects with Port Terminal Railroad.	None.
HIGHWAY CONNECTIONS	Via plant road, asphalt, 20 feet wide, from State Highway 225.	Via plant road, concrete, 22 feet wide, from State Highway 225, concrete, 40 feet wide.	Via plant road, asphalt, 16 feet wide, from State Highway 225, concrete, 40 feet wide.
WATER SUPPLY (Available to Vessels)	None.	Through 2-inch line.	None.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 110 volts.	None.
FIRE PROTECTION (Other than City)	One 12-inch fire line.	Monitor nozzles, 6-inch fire line, hydrants, hand extinguishers, and security patrol.	None.
REMARKS	Two 8-inch pipelines extend from wharf to 8 steel storage tanks, total capacity 266,200 barrels.	Two 12-, and two 6-inch product pipelines and one 6-, and one 4-inch vapor lines extend from wharf to the following steel storage tanks located at plant in rear: Tenneco Oil Co - 4 methanol tanks, total capacity 179,000 barrels; Tenn-USS - two 2ethyl hexanoyl tanks, total capacity 75,550 barrels, and one arthoxylene tank, total capacity 62,132 barrels; Occidental Chemical Corp. - 2 anhydrous ammonia tanks, total capacity 30,000 tons.	-

Corps of Engineers Port Code No.	60370 Dock Code No. 750	60370 Dock Code No. 750	60370 Dock Code No. 750
REFERENCE NUMBER ON MAP NO. 3	223	224	225
NAME	Shell Oil Co., Fueling Dock.	Shell Oil Co., West Dock.	Shell Oil Co., Dock No. 3.
LOCATION ON WATERFRONT	Deer Park, inner end of Boggy Bayou Basin. LaPorte Road.	Deer Park, inner end, lower side of Boggy Bayou Basin. LaPorte Road.	Deer Park, southeast side of Boggy Bayou Basin, 1,100 feet from inner end. LaPorte Road.
OWNED BY	Shell Oil Co.	Shell Oil Co.	Shell Oil Co.
OPERATED BY	Shell Oil Co.	Shell Oil Co. and Shell Chemical Co.	Shell Oil Co. and Shell Chemical Co.
PURPOSE FOR WHICH USED	Fueling tugs and towboats.	Receipt and shipment of petroleum products and chemicals.	Receipt and shipment of petroleum products and chemicals.
TYPE OF CONSTRUCTION	Timber bulkhead with solid fill, fronted by timber pile, timber-decked extension.	Concrete pile, concrete-decked, offshore wharf with 40- by 10-foot approach.	Timber pile, timber-decked, offshore wharf with 125- by 14-foot timber approach; concrete breasting dolphins in line with face and with dolphins at adjacent wharves, West Dock and Dock No. 2; timber walkways extend from each side of wharf along rear of dolphins.

DESCRIPTION		223 Face	223 Sides	223	224 Face	224 Sides	224	225 Face	225 Inner side	225 Outer side
Dimensions	(Feet)	200	20, each		220	65, each		243	44	24
Depth Alongside at MLT	Do.	20	-		37	-		40	-	-
Breasting Distance	Do.	200	-		650	-		600 w/dlph	-	-
Total Berthing Space	Do.	200	-		650	-		600 w/dlph	-	-
Width of Apron	Do.	Open.			65			Open.		
Height of Deck at MLT	Do.	3			25			10		
Load Capacity	(Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted		Lighted.			Lighted.			Lighted.		

	223	224	225
MECHANICAL HANDLING FACILITIES	None.	Six 5-ton hydraulic cranes for handling hose.	Four pneumatic, mast-and-boom derricks for handling hose.
RAILWAY CONNECTIONS	Trackage serving oil refinery and chemical plant in rear connects with Port Terminal Railroad and Southern Pacific Transportation Co.	Plant trackage serving oil refinery and chemical plant in rear connects with Port Terminal Railroad and Southern Pacific Transportation Co.	Plant trackage serving oil refinery and chemical plant in rear connects with Port Terminal Railroad and Southern Pacific Transportation Co.
HIGHWAY CONNECTIONS	Via plant road, asphalt, 16 feet wide, from State Highway 225, concrete, 40 feet wide.	Via private roads, asphalt, 16 feet wide, from State Highway 225, concrete, 40 feet wide.	Via private roads, asphalt, 16 feet wide, from State Highway 225, concrete, 40 feet wide.
WATER SUPPLY (Available to Vessels)	Through one 2-inch line with 1 1/2-inch hose connections.	None.	Through 3-inch line with 2 1/2-inch connection.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Plant fire department, hydrants, 4-inch fire line, hose, and hand extinguishers.	Two 8-inch fire lines and pump.	Sprinkler system under wharf, plant fire department, monitor nozzles, steam lines, and hand extinguishers.
REMARKS	One 2-inch diesel fueling line extends to wharf from storage tanks described under Ref. No. 224.	Breasting dolphins and faces of wharves on each side of Ref. Nos. 223 and 225 are in line and provide 2,400 feet of continuous berthing space. Two 18-, seven 12-, nine 10-, eighteen 8-, twelve 6-, and four 3-inch pipelines on wharf join pipelines extending along shore in rear to steel storage tanks located at oil refinery and chemical plant in rear. Shell Oil Co.: 122 petroleum products tanks, total capacity 7,600,000 barrels; 24 crude oil tanks, total capacity 2,850,000 barrels, and 20 petrochemical tanks, total capacity 19,110,000 gallons; Shell Chemical Co.: 182 petrochemical tanks, total capacity 52,500,000 gallons, and 3 petroleum products tanks, total capacity 750,000 barrels.	Breasting dolphins and faces of Ref. Nos. 223 and 225 are in line and provide a total of 2,400 feet of continuous berthing space. Two 18-, seven 12-, nine 10-, eighteen 8-, twelve 6-, and four 3-inch pipelines on wharf join pipelines extending along shore in rear to steel storage tanks described under Ref. No. 224.

Corps of Engineers Port Code No.	60370 Dock Code No. 750	60370 Dock Code No. 750	60370 Dock Code No. 752
REFERENCE NUMBER ON MAP NO. 3	226	227	228
NAME	Shell Oil Co., Dock No. 2.	Shell Oil Co., East Dock.	Shell Oil Co. Crude Oil Dock.
LOCATION ON WATERFRONT	Deer Park, southeast side of Boggy Bayou Basin, 1,700 feet from inner end. LaPorte Road.	Deer Park, southeast side of Boggy Bayou Basin, 1,700 feet from inner end. LaPorte Road.	Deer Park, right bank, Houston Ship Channel, approximately 1,600 feet below Boggy Bayou Basin. LaPorte Road.
OWNED BY	Shell Oil Co.	Shell Oil Co.	Shell Oil Co.
OPERATED BY	Shell Oil Co. and Shell Chemical Co.	Shell Oil Co. and Shell Chemical Co.	Shell Oil Co. and Shell Chemical Co.
PURPOSE FOR WHICH USED	Receipt of crude oil; receipt and shipment of petroleum products, petrochemicals, and chemicals; bunkering vessels using wharf.	Receipt and shipment of petroleum products, and chemicals.	Receipt of crude oil and shipment of fuel oil; supplying harbor bunkering barges.
TYPE OF CONSTRUCTION	Concrete pile, concrete-decked, offshore wharf with 125- by 14-foot approach; concrete breasting dolphins in line with face and dolphins at adjacent wharves, Dock Nos. 3 and 1.	Concrete pile , concrete-decked, offshore wharf with 40- by 10-foot approach.	Prestressed, concrete pile, concrete-decked offshore wharf with 25- by 20-foot approach; 4 concrete breasting dolphins in line with and one fronting face are connected by catwalk which continues to 2 concrete mooring dolphins below wharf and in rear of line of face.

DESCRIPTION	Face	Inner side	Outer side	Face	Sides		Face	Sides	
Dimensions (Feet)	238	44	28	220	65, each		130	75, each	
Depth Alongside at MLT Do.	33	-	-	40	-		41-5	-	
Breasting Distance Do.	600 w/dlph	-	-	650	-		320	-	
Total Berthing Space Do.	600 w/dlph	-	-	650	-		850 w/mrg	-	
Width of Apron Do.	Open			65			Open		
Height of Deck at MLT Do.	10			25			20.5		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Four pneumatic, mast-and-boom derricks for handling hose.	Five 5-ton hydraulic cranes for handling hose.	Six 16-inch, swivel-jointed, loading arms and one 12-ton hydraulic mast-and-boom derrick for handling hose.
RAILWAY CONNECTIONS	Plant trackage serving oil refinery and chemical plant in rear connects with Port Terminal Railroad and Southern Pacific Transportation Co.	Plant trackage serving oil refinery and chemical plant in rear connects with Port Terminal Railroad and Southern Pacific Transportation Co.	Plant trackage serving oil refinery and chemical plant in rear connects with Port Terminal Railroad and Southern Pacific Transportation Co.
HIGHWAY CONNECTIONS	Via private roads, asphalt, 16 feet wide, from State Highway 225, concrete, 40 feet wide.	Via private roads, asphalt, 16 feet wide, from State Highway 225, concrete, 40 feet wide.	Via plant roads, asphalt, 16 feet wide, from State Highway No. 225.
WATER SUPPLY (Available to Vessels)	Through 3-inch line with 2 1/2-inch connection.	None.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Sprinkler system under wharf, plant fire department, monitor nozzles, steam lines, and hand extinguishers.	Two 8-inch fire lines and pump.	Water line and foam system.
REMARKS	One 18-, six 12-, nine 10-, eighteen 8-, nine 6-, and four 4-inch pipelines on wharf join pipelines extending along shore in rear to storage tanks described under Ref. No. 224.	Two 18-, seven 12-, nine 10-, eighteen 8-, twelve 6-, and four 3-inch pipelines on wharf join pipelines extending along shore in rear to storage tanks described under Ref. No. 224.	Two 24-inch crude oil, two 12-inch fuel oil, one 8-inch bunker oil, and one 8-inch diesel oil pipelines extend from wharf to storage tanks described under Ref. No. 224. One 12-inch ballast line serves wharf.

Corps of Engineers Port Code No.	60370		Dock Code No. 755	60370		Dock Code No. 765	60370		Dock Code No. 76
REFERENCE NUMBER ON MAP NO. 2	229			230			231		
NAME	Shell Oil Co., Contractor's Wharf.			Occidental Chemical Corp., Deer Park Plant, Caustic Dock.			Occidental Chemical Corp., Deer Park Plant Solvents Dock.		
LOCATION ON WATERFRONT	Deer Park, right bank, Houston Ship Channel, between entrance to Boggy Bayou Basin and Patrick Bayou. LaPorte Road.			Deer Park, right bank, Houston Ship Channel, foot of Tidal Road extended, approximately 1,000 feet west of entrance to Patrick Bayou. Tidal Road.			Deer Park, right bank of Houston Ship Channel, approximately 600 feet west of entrance to Patrick Bayou. Tidal Road.		
OWNED BY	Shell Oil Co.			Occidental Chemical Corp.			Occidental Chemical Corp.		
OPERATED BY	Various operators. (See Remarks.)			Occidental Chemical Corp.			Occidental Chemical Corp.		
PURPOSE FOR WHICH USED	Mooring towboats.			Receipt and shipment of bulk liquid, caustic soda and petrochemicals by barge.			Receipt and shipment of liquid caustic soda and petrochemicals by barge.		
TYPE OF CONSTRUCTION	Remains of timber wharf and row of timber dolphins in line with face.			Timber pile, timber-decked wharf fronting steel sheet pile bulkhead with solid fill; 4 timber breasting dolphins in line with face			Timber pile, timber-decked, offshore wharf with 35- by 6.5-foot timber approach from concrete-capped, timber sheet pile bulkhead with solid fill; 4 timber breasting dolphins in line with face.		
DESCRIPTION	Face	Sides		Face	Sides		Face	Upper side	Lower side
Dimensions (Feet)	60	20, each		25	15, each		20+6	10	7+3
Depth Alongside at MLW Do.	15	-		10-27	-		13-15	-	-
Breasting Distance Do.	250 w/dlph	-		155 w/dlph	-		155 w/dlph	-	-
Total Berthing Space Do.	250 w/dlph	-		155 w/dlph	-		155 w/dlph	-	-
Width of Apron Do.	Open.			Open.			Open.		
Height of Deck at MLW Do.	5			8.7			10		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Unlighted.			Lighted.			Lighted.		
MECHANICAL HANDLING FACILITIES	None.			One mast-and-boom derrick for handling hose.			One counter-balanced hose-handling boom with hoist.		
RAILWAY CONNECTIONS	None.			Plant trackage serving chemical plant in rear connects with Port Terminal Railroad.			Plant trackage serving chemical plant in rear connects with Port Terminal Railroad.		
HIGHWAY CONNECTIONS	Via plant roads, asphalt, 16 feet wide, from State Highway No. 225.			Via Tidal Road, asphalt, 20-22 feet wide, from State Highway 225.			Via Tidal Road, asphalt, 20-22 feet wide, from State Highway 225.		
WATER SUPPLY (Available to Vessels)	None.			Through one 1-inch line.			Through 1-inch line.		
ELECTRIC POWER (Available to Vessels)	None.			None.			None.		
FIRE PROTECTION (Other than City)	None.			Pumps, plant equipment, hand extinguishers, and security patrol.			Hydrants, monitor nozzles on shore, hand extinguishers, and security patrol.		
REMARKS	Contractors receive materials and supplies for on-site construction at Deer Park Manufacturing Complex.			Three 6- and one 4-inch pipelines extend from wharf to 16 steel, caustic storage tanks, total capacity 22,300 tons; and to 12 steel, petrochemical storage tanks, total capacity 61,740,000 gallons, located at plant in rear. In addition, one 2-inch compressed air line serves wharf. Bulkhead in rear of wharf is recessed for plant water intake.			One 6-, and one 4-inch pipelines extend from wharf to storage tanks described under Ref. No. 230. In addition, one 2-inch compressed air line and one 3-inch vapor line serve wharf.		

Corps of Engineers Port Code No.	60370 Dock Code No. 765	60370 Dock Code No. 776	60370 Dock Code No. 777
REFERENCE NUMBER ON MAP NO. 2	232	233	234
NAME	Occidental Chemical Corp., Deer Park Plant Chlorine Dock.	Rohm and Haas, Houston Plant Barge Wharf.	Intercontinental Terminals Inc., Barge Dock No.4.
LOCATION ON WATERFRONT	Deer Park, right bank of Houston Ship Channel, outer end of north side of entrance to Patrick Bayou. Tidal Road.	Deer Park, lower side of slip at entrance to Tucker Bayou. Tidal Road.	Deer Park, northeast side of slip at entrance to Tucker Bayou. Tidal Road.
OWNED BY	Occidental Chemical Corp.	Rohm and Haas Co.	Intercontinental Terminals, Inc.
OPERATED BY	Occidental Chemical Corp.	Rohm and Haas Co.	Intercontinental Terminals, Inc.
PURPOSE FOR WHICH USED	Receipt and shipment of chlorine.	Receipt of sulfuric acid; shipment of petrochemicals.	Receipt and shipment of miscellaneous bulk liquids.
TYPE OF CONSTRUCTION	Timber pile, timber-decked, offshore wharf with 23- by 6-foot timber approach; 4 timber breasting dolphins in line with face.	Timber pile, timber-decked, offshore wharf with 94- by 16-foot timber approach; 6 timber breasting dolphins in line with face.	Steel sheet pile bulkhead with solid fill with 30- by 30-foot, reinforced concrete, crane loading platform located near center.

DESCRIPTION		Face	Lower side	Upper side	Face	Sides		Face		
Dimensions	(Feet)	30+7	6+6	12	60.5	20, each		464		
Depth Alongside at MLT	Do.	12	-	-	9-12	-		12		
Breasting Distance	Do.	155 w/dlph	-	-	375 w/dlph	-		464		
Total Berthing Space	Do.	155 w/dlph	-	-	375 w/dlph	-		464		
Width of Apron	Do.	Open.			Open.			Open.		
Height of Deck at MLT	Do.	14			13			15		
Load Capacity	(Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted		Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One counter-balanced hose handling boom with hoist.	One 2-ton, pneumatic crane with 25-foot boom for handling hose.	One 8-ton, electric, hydraulic crane equipped with 40-foot boom.
RAILWAY CONNECTIONS	Plant trackage serving chemical plant in rear connects with Port Terminal Railroad.	None.	None.
HIGHWAY CONNECTIONS	Via private road, shell, 10 feet wide, from Tidal Road, asphalt, 20-22 feet wide.	Via private road, shell, 15 feet wide, from Tidal Road, asphalt, 20-22 feet wide.	Via road, gravel, 30 feet wide, from Tidal Road, asphalt, 20-22 feet wide.
WATER SUPPLY (Available to Vessels)	Through 2-inch line.	Through 2-inch line.	None.
ELECTRIC POWER (Available to Vessels)	None.	A.C., 110/440 volts.	None.
FIRE PROTECTION (Other than City)	Hand extinguishers and security patrol.	Monitor nozzles on shore in rear, hydrants, and security patrol.	Pump, hose, hand extinguishers, and security patrol.
REMARKS	One 6-inch pipeline extends from wharf to 12 petrochemical storage tanks described under Ref. No. 230. and two 3-inch pipelines extend to 12 steel, chlorine storage tanks located at plant, total capacity 2,100 tons. In addition, one 2-inch compressed air line and one 3-inch vapor line serve wharf.	Nine 8- and one 6-inch pipelines extend from face of wharf to 13 steel sulfuric acid storage tanks at plant in rear, total capacity 63,070 tons.	Buildings in rear are used for repair, storage and assembly of equipment, storage of materials and supplies, and for offices.

Corps of Engineers Port Code No.	60370 Dock Code No. 779	60370 Dock Code No. 779	60370 Dock Code No. 779
REFERENCE NUMBER ON MAP NO. 2	235	236	237
NAME	Intercontinental Terminals, Inc., Ship Docks Nos. 1, 2, and 3.	Union Equity Co-operative Exchange, Grain Pier.	Paktank Deer Park Terminal, Barge Dock No. 4.
LOCATION ON WATERFRONT	Deer Park, right bank, Houston Ship Channel, upper side of Union Equity Slip, opposite Jacintoport Slip. Tidal Road.	Deer Park, right bank, Houston Ship Channel, inner end upper side of Union Equity Slip. Tidal Road.	Deer Park, right bank of Houston Ship Channel, inner end, lower side of Union Equity Slip. 2759 Battleground Rd.
OWNED BY	Intercontinental Terminals, Inc.	Union Equity Co-operative Exchange.	Paktank Corp.
OPERATED BY	Intercontinental Terminals, Inc.	Union Equity Co-operative Exchange.	Paktank Corp.
PURPOSE FOR WHICH USED	Receipt and shipment of miscellaneous bulk liquids.	Shipment of grain; mooring vessels.	Shipment of caustic soda by barge.
TYPE OF CONSTRUCTION	Concrete-filled, steel pipe pile, concrete-decked wharf; curved railroad trestle extends from shore to wharf apron; and 160- by 28-foot roadway approach extends from shore to wharf apron in line with face of wharf fronted by timber fender system.	Concrete-filled, steel pipe pile, concrete-decked pier extending from center of inner end of a 965-foot wide dredged basin; timber fender system along sides. Two concrete-filled, steel pipe pile, concrete-capped, mooring dolphins connected by a steel and wooden walkway extend 175 feet outward from face of pier.	Timber pile with concrete-decked offshore wharf with 10 + 100 by 10-foot approach.

DESCRIPTION	Face	Outer end		Face	Upper side	Lower side	Face	Sides	
Dimensions (Feet)	1,370	170		42	830	830	35	15, each	
Depth Alongside at MLT Do.	40	-		-	50	50	18	-	
Breasting Distance Do.	1,370	-		-	600	600	200	-	
Total Berthing Space Do.	1,370	-		-	600	600	200	-	
Width of Apron Do.	30			Open.			None.		
Height of Deck at MLT Do.	20			20			10		
Load Capacity (Lbs per Sq. Ft.)	500			500			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

TRANSIT SHEDS Number and Description	One - steel frame, metal-covered; concrete floor.	None.	None.
Length and Width (Feet)	675x142		
Height Inside Do.	23		
Floor Area for Cargo (Sq. Ft.)	63,900		
Load Capacity (Lbs. per Sq. Ft.)	500		
Cargo Doors	Shipside: thirteen, 12 by 15; rear: two, 12 by 15; inner end: one, 17.3 by 22, rail door; each end: one, 12 by 15.		
MECHANICAL HANDLING FACILITIES	Two 8-ton, fixed electric, hydraulic cranes, each equipped with 40-foot boom.	Grain gallery supported by 3 steel towers extends 750 feet along center of pier; equipped with four 42-inch wide, electric belt conveyors extending from grain elevator in rear. Grain gallery serves six 92-foot, hinged, horizontal, electric, belt-conveyor booms, two on upper side of each tower supporting gallery; each boom has 87-foot outboard reach and is equipped with a traveling vessel-loading spout; combined loading rate 50,000 bushels per hour.	One 5-ton hydraulic crane for handling hose.
RAILWAY CONNECTIONS	One surface track on apron and a carfloor-level track along inside of rear of transit shed join additional trackage in rear of grain elevator; connect with Port Terminal Railroad.	Four surface tracks at rear of elevator, join 400-car capacity grain elevator storage yard in rear; connect with Port Terminal Railroad.	Terminal trackage in rear connects with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via private road, asphalt, 20 feet wide, from Tidal Road, concrete, 22-50 feet wide.	Via private road, asphalt, 50 feet wide, from Tidal Road, concrete, 22-50 feet wide.	Via private road, asphalt, 20 feet wide, from State Highway 134.
WATER SUPPLY (Available to Vessels)	Through 4-inch line with 2 1/2-inch connections.	None.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Hydrants and security patrol.	Monitor nozzles on shore in rear, hydrants, and security patrol.	Monitor nozzles on shore in rear, hydrants, and security patrol.
REMARKS	One 20-, ten 12-, six 10-, six 8-, and three 6-inch pipelines extend from wharf to 72 steel storage tanks in rear, total capacity 3,000,000 barrels. In addition, one 8-inch pipeline extends to tankage at nearby Rohm and Haas Co. plant described under Ref. No. 233.	Grain elevator in rear has a storage capacity for 8,500,000 bushels. Three electric and three gravity-type grain trimmers are available for use on vessel-loading spouts. Upper side of pier used for shipment of grain; lower side for mooring.	Two 10-inch pipelines extend from wharf to 10 caustic soda storage tanks, total capacity 440,000 barrels. One 6-inch pipeline for perchlorethylene extends to one 35,000-barrel storage tank - not used at time of survey.

Corps of Engineers Port Code No.	60370 Dock Code No. 779	60370 Dock Code No. 779	60370 Dock Code No. 780
REFERENCE NUMBER ON MAP NO. 2	238	239	240
NAME	Paktank Deer Park Terminal, Ship Dock No. 1.	Paktank Deer Park Terminal, Ship Dock No. 2.	Paktank Deer Park Terminal, Barge Docks Nos. 5 and 6.
LOCATION ON WATERFRONT	Deer Park, right bank of Houston Ship Channel, center portion, lower side of Union Equity Slip. 2759 Battleground Rd.	Deer Park, right bank of Houston Ship Channel, outer end, lower side of Union Equity Slip. 2759 Battleground Rd.	Deer Park, right bank of Houston Ship Channel, below Union Equity Slip. 2759 Battleground Rd.
OWNED BY	Paktank Corp.	Paktank Corp.	Paktank Corp.
OPERATED BY	Paktank Corp.	Paktank Corp.	Paktank Corp.
PURPOSE FOR WHICH USED	Receipt and shipment of petroleum products and petrochemicals.	Receipt and shipment of petroleum products and petrochemicals.	Receipt and shipment of bunker fuel.
TYPE OF CONSTRUCTION	Steel pile, concrete-decked offshore wharf with 150- by 50-foot approach. One steel and concrete breasting dolphin on each side in line with face connected by catwalk.	Steel pile, concrete-decked wharf; 2 steel sheet pile, cellular breasting dolphins in line with face.	Timber pile, concrete-decked pier; 3 timber breasting dolphins off face in line with each side.

DESCRIPTION	Face	Rear of face	Outer end	Face	Sides		Face	Upper side	Lower side
Dimensions (Feet)	200	160	60	100	35, each		15	90	90
Depth Alongside at MLT Do.	40	18	-	40	-		-	18	18
Breasting Distance Do.	465 w/dlph	-	-	340 w/dlph	-		-	200 w/dlph	200 w/dlph
Total Berthing Space Do.	465 w/dlph	-	-	900 w/mrg	-		-	200 w/dlph	200 w/dlph
Width of Apron Do.	60			Open.			-	None.	None.
Height of Deck at MLT Do.	15			15			10		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Four 10-ton hydraulic cranes for handling hose.	One 10-ton hydraulic crane for handling hose.	Two 8-inch loading arms.
RAILWAY CONNECTIONS	Terminal trackage in rear connects with Port Terminal Railroad.	Terminal trackage in rear connects with Port Terminal Railroad.	Terminal trackage in rear connects with Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via private road, asphalt, 20 feet wide, from State Highway 134.	Via private road, asphalt, 20 feet wide, from State Highway 134.	Via private road, asphalt, 20 feet wide, from State Highway 134.
WATER SUPPLY (Available to Vessels)	None.	None.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	Five monitor nozzles.	Two monitor nozzles.	One monitor nozzle.
REMARKS	Mooring dolphins provide for mooring 900-foot vessels. Seven 12-, thirteen 10-, sixteen 8-, and nine 6-inch pipelines extend from wharf to 147 steel storage tanks at terminal in rear, total capacity 4,250,000 barrels.	Eight 8- and four 6-inch pipelines extend from wharf to tankage described under Ref. No. 238.	Two 8-inch pipelines extend from pier to tankage described under Ref. No. 238.

Corps of Engineers Port Code No.	60370 Dock Code No. 780	60370 Dock Code No. 780	60370 Dock Code No. 79
REFERENCE NUMBER ON MAP NO. 2	241	242	243
NAME	Paktank Deer Park Terminal, Barge Docks Nos. 7 and 8.	Paktank Deer Park Terminal, Ship Dock No. 3, Barge Dock Nos. 9 and 10.	San Jacinto State Park, Passenger Landing.
LOCATION ON WATERFRONT	Deer Park, right bank of Houston Ship Channel, 600 feet below Union Equity Slip. 2759 Battleground Rd.	Deer Park, right bank of Houston Ship Channel, 1,200 feet below Union Equity Slip. 2759 Battleground Rd.	San Jacinto State Park, right bank of Houston Ship Channel approximately 150 feet above Battleship "U.S. Texas" Memorial. Park Road.
OWNED BY	Paktank Corp.	Paktank Corp.	Harris County Commissioners Court.
OPERATED BY	Paktank Corp.	Paktank Corp.	Harris County Commissioners Court.
PURPOSE FOR WHICH USED	Receipt and shipment of petroleum products.	Receipt and shipment of petroleum products and petrochemicals.	Landing and mooring for passenger excursion boats and other small craft.
TYPE OF CONSTRUCTION	Timber pile, concrete-decked pier; 2 timber breasting dolphins off face in line with each side.	Concrete pile, concrete-decked offshore wharf with 230- by 50-foot approach. One steel pile, concrete breasting dolphin on each side in line with face.	Concrete-capped steel sheet pile bulkhead fronted by timber fender system row of timber breasting dolphins in line with face. A 100- by 6-foot concrete walkway along face leads to "U.S. Texas" Memorial.

DESCRIPTION	Face	Upper end	Lower end	Face	Rear of face	Lower and upper side	Face	Sides	
Dimensions (Feet)	15	90	90	185	178	70	40	6, each	
Depth Alongside at MLT Do.	-	18	18	40	18	-	9	-	
Breasting Distance Do.	-	150 w/dlph	150 w/dlph	360 w/dlph	100	-	75 w/dlph	-	
Total Berthing Space Do.	-	150 w/dlph	150 w/dlph	900 w/mrg	100	-	75 w/dlph	-	
Width of Apron Do.	-	None.	None.	-	-	-	Open.		
Height of Deck at MLT Do.	10			20			8		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Two 8-inch loading arms.	Two 12.5-ton hydraulic cranes with 50-foot boom.	None.
RAILWAY CONNECTIONS	Terminal trackage in rear connects with Port Terminal Railroad.	Terminal trackage in rear connects with Port Terminal Railroad.	None.
HIGHWAY CONNECTIONS	Via private road, asphalt, 20 feet wide, from State Highway 134.	Via private road, asphalt, 20 feet wide, from State Highway 134.	Via park road, asphalt, 18 feet wide, from Battleground Road (State Highway 134), concrete, 22-50 feet wide.
WATER SUPPLY (Available to Vessels)	None.	None.	None.
ELECTRIC POWER (Available to Vessels)	None.	None.	None.
FIRE PROTECTION (Other than City)	One monitor nozzle.	Hand extinguishers, chemical cart and three monitor nozzles.	None.
REMARKS	Four 10-inch pipelines extend from wharf to tankage described under Ref. No. 238.	Nineteen 8-, and two 6-inch pipelines extend from wharf to tankage described under Ref. No. 138.	-

Corps of Engineers Port Code No.	60370 Dock Code No. 804	60370 Dock Code No. 836	60370 Dock Code No. 884
REFERENCE NUMBER ON MAP NO. 2	244	245	246
NAME	San Jacinto State Park Ferry Slip.	Houston Lighting & Power Co., San Bertron Plant Wharf.	Quantum Chemical Corp., Barge Dock.
LOCATION ON WATERFRONT	San Jacinto State Park, right bank of Houston Ship Channel, at foot of Battleground Road. Battleground Park Road.	LaPorte, Barnes Island, lower side of company-owned barge slip extending from right side of Houston Ship Channel. 2012 Miller Cut Off Rd.	LaPorte, westerly shore of Upper San Jacinto Bay, right bank of Houston Ship Channel. Miller Cut-Off Road.
OWNED BY	Harris County Commissioners Court.	Houston Lighting & Power Co.	Port of Houston Authority.
OPERATED BY	Harris County Commissioners Court.	Houston Lighting & Power Co.	Quantum Chemical Corp. and The Lemm Corp.
PURPOSE FOR WHICH USED	Landing for passenger and vehicular ferries.	Receipt of fuel oil for plant consumption.	Receipt and shipment of acetic acid; receipt of fuel oil and aniline; shipment of vinyl acetate.
TYPE OF CONSTRUCTION	Timber ferry rack with adjustable transfer bridge for vehicles.	Concrete pile, concrete-decked, offshore wharf with 140- by 15-foot approach; 2 concrete breasting platforms with steel fenders in line with face.	Part concrete-filled, steel pipe pile and part concrete pile, concrete-decked, offshore wharf with 91- by 14-foot approach; 4 concrete-filled, steel pipe pile breasting dolphins in line with face; rubber fenders on outer sides of dolphins.

DESCRIPTION	Ferry slip.			Face	Sides		Face	Lower side	Upper side
Dimensions (Feet)	70x40			25	15, each		30	20	20
Depth Alongside at MLT Do.	8-10			18	-		13	5	-
Breasting Distance Do.	70			100 w/dlph	-		320 w/dlph	-	-
Total Berthing Space Do.	70			100 w/dlph	-		320 w/dlph	-	-
Width of Apron Do.	-			Open.			Open.		
Height of Deck at MLT Do.	-			10			15.7		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Overhead frame for adjusting level of transfer bridge.	One 10-inch swivel-jointed unloading arm.	One derrick with two 25-foot booms and three winches with cradles, all pneumatically-operated for handling hoses.
RAILWAY CONNECTIONS	None.	Surface tracks serving power plant in rear connect with tracks of Southern Pacific Transportation Co. and Port Terminal Railroad.	Tracks serving chemical plant in rear connect with tracks of Southern Pacific Transportation Co. and Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via Battleground Road (State Highway 134), paved, 25 feet wide.	Via plant road, concrete, 18 feet wide, from Miller Cut-off Road, asphalt, 22 feet wide.	Via roads, gravel, various widths, from Miller Cut-off Road, asphalt, 22 feet wide.
WATER SUPPLY (Available to Vessels)	None.	None.	Through 2-inch line.
ELECTRIC POWER (Available to Vessels)	None.	None.	A.C., 480 volts.
FIRE PROTECTION (Other than City)	Pumps, hose, and hand extinguishers on ferryboats.	Two 6-inch fire lines and hand extinguishers.	Pumps, hose, monitor nozzles, chemical carts, and hand extinguishers.
REMARKS	Ferries operate to Lynchburg Ferry Slip on opposite side of Houston Ship Channel, Ref. No. 19.	One 14-inch pipeline extends from wharf to 7 steel storage tanks at power plant in rear, total capacity 1,200,000 barrels.	Quantum Chemical Corp.: One 10- and one 8-inch pipelines extend from wharf to 10 steel chemical storage tanks, total capacity 181,200 barrels; one 6-inch pipeline extends from wharf to one fuel oil storage tank, capacity 7,142 barrels. Lemm Corp: One 6-inch pipeline extends from wharf to 2 aniline steel storage tanks, total capacity 800,000 gallons.

Corps of Engineers Port Code No.	60370 Dock Code No. 004	60370 Dock Code No. 004	60370 Dock Code No. 004
REFERENCE NUMBER ON MAP NO. 2	247	248	249 Map No. 3
NAME	U.S.I. Chemicals Co., Deer Park Plant Barge Dock.	E.I. du Pont de Nemours & Co., La Porte Plant, Upper Barge Dock.	E.I. du Pont de Nemours & Co., LaPorte Plant, Lower Barge Dock.
LOCATION ON WATERFRONT	LaPorte, southwesterly shore of Upper San Jacinto Bay, approximately one mile above Baytown Bridge. Strang Road.	LaPorte, southwesterly shore of Upper San Jacinto Bay, approximately 0.8 mile above Baytown Bridge. Strang Road.	La Porte, southwesterly shore of Upper San Jacinto Bay, upper side of slip located 0.7 mile above Baytown Bridge. Strang Road.
OWNED BY	USI Chemicals Co., Division of National Distillers and Chemicals Corp.	E.I. du Pont de Nemours & Co.	E.I. du Pont de Nemours & Co.
OPERATED BY	USI Chemical Co., Division of National Distillers and Chemicals Corp.	E.I. du Pont de Nemours & Co.	E.I. du Pont de Nemours & Co.
PURPOSE FOR WHICH USED	Receipt and shipment of fuel oil and residuals; shipment of methanol.	Receipt of acetic acid and shipment of vinyl acetate.	Receipt of sulfuric acid, shipment of spent sulfuric acid, and waste materials for disposal.
TYPE OF CONSTRUCTION	Concrete pile, concrete-decked, offshore platform with 98- by 10-foot approach; 3 steel breasting dolphins on each side in line with face; center dolphins on each side are connected to face by catwalks.	Concrete pile, concrete-decked, offshore wharf with 60- by 6-foot approach; steel breasting dolphins in line with face.	Timber pile, timber-decked, offshore wharf with 145- by 4-foot timber approach; 8 concrete-filled, steel pipe pile breasting dolphins in line with face.

DESCRIPTION		Face	Upper side	Lower side	Face	Sides		Face	Lower side	Upper side
Dimensions	(Feet)	30	30	30	80	35, each		63	12+12	24
Depth Alongside at MLT	Do.	-	18	18	10-11	-		10-11	-	-
Breasting Distance	Do.	-	200w/dlph	200w/dlph	700 w/dlph	-		350 w/dlph	-	-
Total Berthing Space	Do.	-	200w/dlph	200w/dlph	200 w/dlph	-		350 w/dlph	-	-
Width of Apron	Do.	Open.	30	-	Open.			Open.		
Height of Deck at MLT	Do.	10			9			12		
Load Capacity	(Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted		Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One 8- and one 10-inch, swivel-jointed loading arms.	Two 8-inch, swivel-jointed loading arm.	One 8-, and two 6-inch, swivel-jointed loading arms.
RAILWAY CONNECTIONS	Tracks serving chemical plant in rear connect with tracks of Southern Pacific Transportation Co. and Port Terminal Railroad.	Tracks serving chemical plant in rear connect with tracks of Southern Pacific Transportation Co. and Port Terminal Railroad.	Trackage serving plant in rear connect with tracks of Southern Pacific Transportation Co. and Port Terminal Railroad.
HIGHWAY CONNECTIONS	Via plant road, concrete, 10-20 feet wide, from Strang Road and LaPorte Highway (State Highway 225).	Via plant road, concrete, 10-20 feet wide, from Strang Road and LaPorte Highway (State Highway 225).	Via plant road, concrete, 10-20 feet wide, from Strang Road and LaPorte Highway (State Highway 225).
WATER SUPPLY (Available to Vessels)	None.	None.	Through 6-inch line with 2-inch connections.
ELECTRIC POWER (Available to Vessels)	None.	None.	A.C., 110/440 volts.
FIRE PROTECTION (Other than City)	Plant fire department, two 6-inch fire lines, hose, hand extinguishers and monitor nozzles.	Plant fire department, two 6-inch fire lines, hose, and hand extinguishers.	Plant fire department, two 6-inch fire lines, hose, and hand extinguishers.
REMARKS	One 8-inch fuel oil, and one 10-inch residuals pipelines extend from wharf to 7 steel storage tanks at plant in rear, total capacity 380,000 barrels; one 10-inch methanol pipeline extends to wharf from two steel storage tanks, total capacity 238,000 barrels.	One 8-inch pipeline extends from wharf to 2 steel storage tanks, total capacity 71,500 barrels.	One 8-inch spent sulfuric acid, one 8-inch sulphuric acid, one 6-inch liquid sulphur, and one 6-inch aqueous waste pipelines extend from wharf to 11 storage tanks located at chemical plant in rear, total capacity 60,000 gallons.

Corps of Engineers Port Code No.	60370 Dock Code No. 920	60370 Dock Code No. 920	60370 Dock Code No. 920
REFERENCE NUMBER ON MAP NO. 1	250	251	252
NAME	Tenneco Oil Co., Fractionating Plant Wharf.	Port of Houston, Barbours Cut Terminal Berths Nos. 5 and 6.	Port of Houston, Barbours Cut Terminal Berth No. 4.
LOCATION ON WATERFRONT	Morgans Point, right bank of Barbours Cut, approximately 1.2 miles west of Houston Ship Channel. 1200 N. Broadway St.	Morgans Point, right bank of Barbours Cut, approximately 1.5 miles west of Houston Ship Channel. 1819 Barbours Cut Blvd.	Right bank of Barbours Cut, approximately 1.3 miles west of Houston Ship Channel. 1819 Barbours Cut Blvd.
OWNED BY	Tenneco Oil Co.	Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Tenneco Oil Co.	Not operated. (See Remarks.)	Sealand Service, Inc.
PURPOSE FOR WHICH USED	Receipt and shipment of natural gasoline, butane, and petrochemicals.	Not used.	Receipt and shipment of containerized general cargo in foreign and domestic trade.
TYPE OF CONSTRUCTION	Steel pile, concrete-decked, offshore wharf with 200- by 4-foot steel pile, steel-decked approach, fronted by two timber pile breasting dolphins.	Concrete pile, asphalt-surfaced, concrete-decked wharf fronting steel sheet pile bulkhead with solid fill; fronted by rubber-cushioned steel and timber fender system.	Concrete pile, asphalt-surfaced, concrete-decked wharf fronting steel sheet pile bulkhead with solid fill; fronted by rubber-cushioned steel and timber fender system.

DESCRIPTION	Face	Sides		Face			Face		
Dimensions (Feet)	30	30, each		1,000			1,000		
Depth Alongside at MLT Do.	16	-		42			42		
Breasting Distance Do.	490	-		1,000			1,000		
Total Berthing Space Do.	640	-		1,000			1,000		
Width of Apron Do.	Open.			Open.			Open.		

Height of Deck at MLT Do.	16	19	19
Load Capacity (Lbs per Sq. Ft.)	-	1,000	1,000
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
Container Freight Stations Number and Description	None.	Under construction. (See Remarks.)	One - steel frame, metal-covered; concrete floor. Located approximately one mile west of wharf.
Length and Width (Feet)			560 by 100
Height Inside Do.			20
Floor Area for Cargo (Sq. Ft.)			45,000
Load Capacity (Lbs. per Sq. Ft.)			750
Cargo Doors			East side: five West side: six (truck/rail platform)
MECHANICAL HANDLING FACILITIES	Two 8-inch, swivel-jointed, loading arms.	See Remarks.	Sealand Service, Inc.: Two 40-long ton, electric, traveling, straight-line, container-handling cranes with hinged cantilevered booms having 107-foot outboard reach and 60-foot back reach; cranes have 225-foot container travel length, a hoist height of 81 feet.
RAILWAY CONNECTIONS	None.	None.	Port Terminal Railroad (operated by Southern Pacific Transportation Co.): One platform-level track along west side of container freight station.
HIGHWAY CONNECTIONS	Via North Broadway, asphalt, 20 feet wide, from Barbours Cut Boulevard, asphalt, 30 feet wide.	None.	Via Barbours Cut Boulevard, concrete, 26 feet wide and State Highway 146, concrete, dual lane.
WATER SUPPLY (Available to Vessels)	Through 4-inch line with 2-inch connections.	None.	Through 8-inch line with 2-inch connections.
ELECTRIC POWER (Available to Vessels)	A.C., 110 volts.	None.	A.C., 110/440 volts.
FIRE PROTECTION (Other than City)	Pumps, water line, monitor nozzles, hose and fire extinguishers.	None.	Hydrants, hose, hand extinguishers, and security patrol.
REMARKS	Two 12-, and one 8-inch pipelines extend from wharf to 22 steel horizontal and 5 vertical storage tanks at products fractionating plant in rear, total capacity 113,800 barrels.	At time of survey, facility was under construction with estimated completion date in 1990.	Terminal has storage capacity for 1,225 containers on chassis including 169 positions for refrigerated cargo. Face of wharf is in line and contiguous with face of adjacent wharves (Ref. Nos. 251 and 253).

Corps of Engineers Port Code No.	60370 Dock Code No. 920	60370 Dock Code No. 920	60370 Dock Code No. 920
REFERENCE NUMBER ON MAP NO. 1	253	254	255
NAME	Port of Houston, Barbours Cut Terminal Berth No. 3.	Port of Houston, Barbours Cut Terminal Berth No. 2.	Port of Houston, Barbours Cut Terminal Berth No. 1
LOCATION ON WATERFRONT	Right bank of Barbours Cut, approximately one mile west of Houston Ship Channel. 1819 Barbours Cut Blvd.	Right bank of Barbours Cut, approximately 0.7 mile west of Houston Ship Channel. 1819 Barbours Cut Blvd.	Right bank of Barbours Cut, approximately 0.4 mile west of Houston Ship Channel. 1819 Barbours Cut Blvd.
OWNED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Sealand Service, Inc.	Port of Houston Authority.	Port of Houston Authority.
PURPOSE FOR WHICH USED	Receipt and shipment of containerized general cargo in foreign and domestic trade.	Receipt and shipment of containerized general cargo in foreign and domestic trade.	Receipt and shipment of containerized and roll-on/roll-off general cargo in foreign and domestic trades.
TYPE OF CONSTRUCTION	Concrete pile, asphalt-surfaced, concrete-decked wharf fronting steel sheet pile bulkhead with solid fill; fronted by rubber-cushioned steel and timber fender system.	Concrete pile, asphalt-surfaced, concrete-decked wharf fronting steel sheet pile bulkhead with solid fill; fronted by rubber-cushioned steel and timber fender system.	Concrete pile, asphalt-surfaced, concrete-decked wharf fronting steel sheet pile bulkhead with solid fill; fronted by rubber-cushioned steel and timber fender system.
DESCRIPTION	Face	Face	Face
Dimensions (Feet)	1,000	1,000	1,000
Depth Alongside at MLT Do.	42	42	42
Breasting Distance Do.	1,000	1,000	1,000
Total Berthing Space Do.	1,000	1,000	1,000
Width of Apron Do.	Open.	Open.	Open.
Height of Deck at MLT Do.	19	19	19
Load Capacity (Lbs per Sq. Ft.)	1,000	1,000	1,000
Lighted or Unlighted	Lighted.	Lighted.	Lighted.
Container Freight Station Number and Description	Use of container freight station described under Ref. No. 252	Use of container freight station described under Ref. No. 252	Use of container freight station described under Ref. No. 252.
Length and Width (Feet)			
Height Inside Do.			
Floor Area for Cargo (Sq. Ft.)			
Load Capacity (Lbs. per Sq. Ft.)			
Cargo Doors			
MECHANICAL HANDLING FACILITIES	Two 30-long ton, electric, traveling, straight-line, container-handling cranes with hinged cantilevered booms having 107-foot outboard reach and 60-foot back reach; cranes have 225-foot container travel length, a hoist height of 81 feet, and travel full length of Terminal Nos. 2 and 3.	Port of Houston Authority: Two 30-long ton, electric, traveling, straight-line container cranes with hinged cantilevered booms having 107-foot outboard reach and 60-foot back reach; cranes have 225-foot container travel length, and a hoist height of 81 feet. One 82-ton, diesel mobile crane with 120-foot boom; three 40-, and eight 30-ton diesel, mobile straddle carriers, and two 15-, one 26-, and four 3-ton fork lift trucks serve storage yard.	Port of Houston Authority: Two 30-long ton, electric, traveling, straight-line container cranes with hinged cantilevered booms having 107-foot outboard reach and 60-foot back reach; cranes have 225-foot container travel length, and a hoist height of 81 feet. Additional cranes described under Ref. No. 254 are also available at wharf.
RAILWAY CONNECTIONS	Port Terminal Railroad (operated by Southern Pacific Transportation Co.): One platform-level track along west side of container freight station.	Port Terminal Railroad (operated by Southern Pacific Transportation Co.): One platform-level track along west side of container freight station.	Port Terminal Railroad (operated by Southern Pacific Transportation Co.): One platform-level track along west side of container freight station.
HIGHWAY CONNECTIONS	Via Barbours Cut Boulevard, concrete, 26 feet wide and State Highway 146, concrete, dual lane.	Via Barbours Cut Boulevard, concrete, 26 feet wide and State Highway 146, concrete, dual lane.	Via Barbours Cut Boulevard, concrete, 26 feet wide, from State Highway 146, concrete, dual lane.
WATER SUPPLY (Available to Vessels)	Through 8-inch line with 2-inch connections.	Through 8-inch line with 2-inch connections.	Through 8-inch line with 2-inch connections.
ELECTRIC POWER (Available to Vessels)	A.C., 110/440 volts.	A.C., 110/440 volts.	A.C., 110/440 volts.
FIRE PROTECTION (Other than City)	Hydrants, hose, hand extinguishers, and security patrol.	Hydrants, hose, hand extinguishers, and security patrol.	Hydrants, hose, hand extinguishers, and security patrol.
REMARKS	Terminal has storage capacity as described under Ref. No. 252. Face of wharf is in line and contiguous with face of adjacent wharves (Ref. No. 254)).	Terminal has storage capacity as described under Ref. No. 252. Face of wharf is in line and contiguous with face of adjacent wharf (Ref. No. 253). Approximately 12 acres of open storage area are located in rear.	Terminal has storage capacity as described under Ref. No. 252. Face of wharf is in line and contiguous with face of adjacent wharf (Ref. No. 254). Barbours Cut Terminal office is located in rear of wharf. Approximately 20 acres of open storage area are located in rear.

Corps of Engineers Port Code No.	60370 Dock Code No. 920	60370 Dock Code No. 920	60370 Dock Code No. 920
REFERENCE NUMBER ON MAP NO. 1	256	257	258
NAME	Port of Houston, Barbours Cut Terminal Roll-on/Roll-off Wharf.	Port of Houston, Barbours Cut Terminal LASH Vessel Mooring Wharf and Barge Mooring.	Port of Houston, Barbours Cut Terminal Fireboat Dock.
LOCATION ON WATERFRONT	Right bank of Barbours Cut, approximately 0.3 mile west of Houston Ship Channel. 1819 Barbours Cut Blvd.	Right bank of Barbours Cut, approximately 800 feet west of Houston Ship Channel. 1819 Barbours Cut Blvd.	Morgans Point, south side of entrance to Barbours Cut, approximately 600 feet west of Houston Ship Channel. 1819 Barbours Cut Blvd.
OWNED BY	Port of Houston Authority.	Port of Houston Authority.	Port of Houston Authority.
OPERATED BY	Barbours Cut Marine Contractors, Inc.	Port of Houston Authority.	Port of Houston Authority.
PURPOSE FOR WHICH USED	Receipt and shipment of roll-on/roll-off general cargo in foreign and domestic trade.	Mooring idle vessels and barges for fleeting.	Mooring fireboat "Howard T. Tellepsen".
TYPE OF CONSTRUCTION	Concrete pile, concrete-decked, irregularly-shaped offshore wharf with 100- by 25-foot approach from steel sheet pile bulkhead with solid fill; three steel pipe pile breasting dolphins front bulkhead on lower side.	Wharf: Concrete pile, concrete decked, offshore wharf with two 570- by 14-foot roadway approaches; 4 steel sheet pile, cellular breasting dolphins in line with face; fronted by rubber-cushioned steel and timber fender system. Barge mooring: Row of steel pipe pile breasting dolphins on opposite side of Barbours Cut.	Timber pile, timber-decked, L-shaped, offshore wharf with 104- by 6-foot timber approach.

DESCRIPTION	Upper face	Lower face	Outer end	Face	Barge mooring		Face	Upper side	Lower side
Dimensions (Feet)	63	57	137+78	282	1,500		81+28	81	6
Depth Alongside at MLT Do.	42	15	-	42	12		12	-	-
Breasting Distance Do.	See Remarks.			790w /dlph	1,500@dlph		81	-	-
Total Berthing Space Do.	See Remarks.			790	1,500		81	-	-
Width of Apron Do.	Open.			16			10		
Height of Deck at MLT Do.	10.6			750			10		
Load Capacity (Lbs per Sq. Ft.)	750						-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

TRANSIT SHEDS Number and Description	Container Freight Station: One steel frame, metal-covered; concrete floor.	None.	None.
Length and Width (Feet)	500 by 200		
Height Inside Do.	20		
Floor Area for Cargo (Sq. Ft.)	98,500		
Load Capacity (Lbs. per Sq. Ft.)			
Cargo Doors	Each side: five, 14 by 14; and two, 21 by 24; each end: one, 24 by 24.		
MECHANICAL HANDLING FACILITIES	One 2-, two 9-ton diesel and four 3-ton gasoline forklift trucks.	None.	None.
RAILWAY CONNECTIONS	Port Terminal Railroad: One platform-level track serves south side of container freight station and COFC/TOFC ramp at rear.	None.	None.
HIGHWAY CONNECTIONS	Via Barbours Cut Boulevard, concrete, 26 feet wide, from State Highway 146, concrete, dual lane.	Via Barbours Cut Boulevard, concrete, 26 feet wide, from State Highway 146, concrete, dual lane.	Via Barbours Cut Boulevard, concrete, 26 feet wide, from State Highway 146, concrete dual lane.
WATER SUPPLY (Available to Vessels)	None.	Through 4-inch line with 2-inch connections.	Through 1 1/4-inch line.
ELECTRIC POWER (Available to Vessels)	None.	None.	A.C., 110/440 volts.
FIRE PROTECTION (Other than City)	Hydrants, hose, hand extinguishers, and security patrol.	12-inch fire line, hydrant, fire truck, and hand extinguishers.	Fireboat.
REMARKS	Wharf is located at lower side of Terminal No. 1 (Ref. No. 255) allowing transfer of roll-on roll-off cargo via vessel's stern ramp, breasting dolphins off lower side allow like cargo transfer for shallower draft vessels. Approximately 40 acres of concrete paved marshalling area are located at rear.	Approximately 40 acres of concrete paved marshalling area are located at rear.	One 2-inch fueling line extends to wharf from one 4,000-gallon storage tank. One 2 1/2-inch bilge line extends to one 550-gallon storage tank; one 1 1/2-inch sewer line connects with local system.

Corps of Engineers Port Code No.	60370 Dock Code No. 922	60370 Dock Code No. 942	60370 Dock Code No. 942
REFERENCE NUMBER ON MAP NO. 1	259	260	261
NAME	Port of Houston, Morgans Point Tug and Towboat Mooring.	PetroUnited Bayport Terminal Barge Dock.	PetroUnited Bayport Terminal Ship Dock.
LOCATION ON WATERFRONT	Morgans Point, right bank of Houston Ship Channel, approximately 400 feet below entrance to Barbours Cut. Barbours Cut Blvd.	Seabrook, Bayport Channel, west end of Turning Basin, approximately 2 miles west of Houston Ship Channel. 11666 Port Road	Seabrook, Bayport Channel, west end of Turning Basin, approximately 2 miles west of Houston Ship Channel. 11666 Port Road
OWNED BY	Port of Houston Authority.	PetroUnited Terminals, Inc.	PetroUnited Terminals, Inc.
OPERATED BY	G & H Towing Co.	PetroUnited Terminals, Inc.	PetroUnited Terminals, Inc.
PURPOSE FOR WHICH USED	Mooring tugs and towboats.	Receipt and shipment of petroleum products and petrochemicals.	Receipt and shipment of petroleum products and petrochemicals.
TYPE OF CONSTRUCTION	Row of 4 steel pile, offshore, mooring dolphins; two 65- by 12-foot, timber pile, timber-decked walkways extend from shore to dolphins.	Steel sheet pile bulkhead with solid fill, fronted by timber fender system; two mooring dolphins in line with face on north end.	Concrete pile, concrete-decked offshore wharf with 67- by 44-foot approach; one steel breasting dolphin on each side in line with face connected by catwalk.

DESCRIPTION		Dolphins			Face	North end	West end	Face	Sides	
Dimensions	(Feet)	175			120	120	90	100	50, each	
Depth Alongside at MLT	Do.	25			14	-	-	38	-	
Breasting Distance	Do.	175			120	-	-	240 w/dlph	-	
Total Berthing Space	Do.	175			120	-	-	240 w/dlph	-	
Width of Apron	Do.	Open.			Open.			Open.		
Height of Deck at MLT	Do.	12,top of deck			12			16		
Load Capacity (Lbs per Sq. Ft.)		-						-		
Lighted or Unlighted		Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	None.	One 3-ton hydraulic crane with 50-foot boom for handling hose.	One 4-ton hydraulic crane on elevated platform for handling hose.
RAILWAY CONNECTIONS	None.	Two surface tracks serve carloading racks at rear; connect with tracks of Southern Pacific Transportation Co.	Two surface tracks serve carloading racks at rear; connect with tracks of Southern Pacific Transportation Co.
HIGHWAY CONNECTIONS	Via Barbours Cut Boulevard, concrete, 26 feet wide, from State Highway 146, concrete dual lane.	Via plant road, concrete,20 feet wide, from Port Road, concrete, 24 feet wide, and State Highway 146, dual lane.	Via plant road, concrete, 20 feet wide, from Port Road, concrete, 24 feet wide, and State Highway 146, dual lane.
WATER SUPPLY (Available to Vessels)	None.	None.	None.
ELECTRIC POWER (Available to Vessels)	A.C., 110 volts.	None.	None.
FIRE PROTECTION (Other than City)	Hand extinguishers.	Monitors, foam, and hand extinguishers.	One 6-inch fire line, foam system, monitors and sprinkler system.
REMARKS	Tugs and towboats berth at dolphins to await orders for shifting, berthing, or towing vessels in Houston, Texas City, and Galveston Harbors. Small building in rear used as dispatch office and marine reporting station for Morgans Point Maritime Service, Inc.	Nine 8-, four 6- and one 4-inch pipelines extend from wharf to 74 steel storage tanks, total capacity 1,753,000 barrels.	Four 12-, eleven 10-, nine 8-, thirty-three 6-, and one 4-inch lines extend from wharf to tankage described under Ref. No. 260.

Corps of Engineers Port Code No.	60370 Dock Code No. 942	60370 Dock Code No. 942	60370 Dock Code No. 942
REFERENCE NUMBER ON MAP NO. 1	262	263	264
NAME	Celanese Chemical Co., Bayport Terminal Barge Slip.	Celanese Chemical Co., Bayport Ship Terminal Dock.	Baytank (Houston), Bayport Ship Terminal Wharf No. 1.
LOCATION ON WATERFRONT	Seabrook, Bayport Channel, southeast corner of Turning Basin, approximately 2 miles west of Houston Ship Channel. 11807 Port Road.	Seabrook, at head of Bayport Channel, approximately 2 miles west of Houston Ship Channel. 11807 Port Road	Seabrook, at head of Bayport Channel, approximately 2 miles west of Houston Ship Channel. 12211 Port Road
OWNED BY	Celanese Chemical Co., Inc.	Celanese Chemical Co., Inc.	Baytank (Houston), Inc.
OPERATED BY	Celanese Chemical Co., Inc.	Celanese Chemical Co., Inc.	Baytank (Houston), Inc.
PURPOSE FOR WHICH USED	Receipt and shipment of petrochemicals.	Receipt and shipment of petrochemicals.	Receipt and shipment of petrochemicals.
TYPE OF CONSTRUCTION	Rectangular slip formed by steel sheet pile retaining walls with concrete-surfaced solid fill.	Concrete pile, concrete-decked, offshore wharf with two 75-foot approaches; one steel and concrete breasting platform on each side in line with face, each with shore connection.	Steel pile, concrete-decked, offshore wharf with three 24- by 30-foot concrete approaches; six steel and rubber cushion fender breasting dolphins along face.

DESCRIPTION	Slip			Face	Inner end	Outer end	Face	Sides	
Dimensions (Feet)	300 by 50			140	40	40	587	30, each	
Depth Alongside at MLT Do.	15			37	-	-	40	-	
Breasting Distance Do.	300			225 w/dlph	-	-	587	-	
Total Berthing Space Do.	300			225 w/dlph	-	-	587	-	
Width of Apron Do.	10			Open.			-		
Height of Deck at MLT Do.	10			20			14		
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	Two 8-inch, swivel-jointed loading arms on west side and one 2-ton hydraulic crane with 50-foot boom for handling hose.	One 4-ton hydraulic crane on elevated platform for handling hose.	One steel-framed, overhead, hosehandling structure at rear of face with pneumatic hoist.
RAILWAY CONNECTIONS	Two surface tracks serve carloading racks at rear; connect with tracks of Southern Pacific Transportation Co.	Two surface tracks serve carloading racks at rear; connect with tracks of Southern Pacific Transportation Co.	Two surface tracks serve carloading station for direct product transfer between rail cars and vessels; connect with tracks of Southern Pacific Transportation Co.
HIGHWAY CONNECTIONS	Via plant road, asphalt, 20 feet wide, from Port Road asphalt, 24 feet wide, and State Highway 146, dual lane.	Via plant road, asphalt, 20 feet wide, from Port Road asphalt, 24 feet wide, and State Highway 146, dual lane.	Via plant road, asphalt, 20 feet wide, from Port Road asphalt, 24 feet wide, and State Highway 146, dual lane.
WATER SUPPLY (Available to Vessels)	None.	None.	Through 4-inch line.
ELECTRIC POWER (Available to Vessels)	None.	None.	A.C., 110/440 volts.
FIRE PROTECTION (Other than City)	Eight-inch fire line, foam fire line loop, hand extinguishers, monitors and pump.	Eight-inch fire line, foam fire line loop, hand extinguishers, monitors, and pump.	Monitors, hydrants, hose, pumps, foam system, hand extinguishers and security patrol.
REMARKS	Four 10- and four 6-inch pipelines extend from wharf to 19 steel storage tanks, total capacity 27,258,000 gallons.	Two 14-, three 10-, ten 6-, and three 4-inch pipelines extend from wharf to tankage described under Ref. No. 262.	Thirteen 8-inch product pipelines extend from wharf to 58 steel storage tanks, total capacity 36,000,000 gallons. One 8- and one 6-inch bunker pipelines extends from wharf to 3 steel storage tanks, total capacity 100,000 barrels of bunker oil.

Corps of Engineers Port Code No.	60370 Dock Code No. 942	60370 Dock Code No. 942	60370 Dock Code No. 942
REFERENCE NUMBER ON MAP NO. 1	265	266	267
NAME	Baytank (Houston), Bayport Ship Terminal Wharf No. 2.	Baytank (Houston), Bayport Barge Slip No. 1.	Baytank (Houston), Bayport Barge Slip No. 2.
LOCATION ON WATERFRONT	At head of Bayport Channel, approximately 2 miles west of Houston Ship Channel. 12211 Port Road	At head of Bayport Channel, approximately 2 miles west of Houston Ship Channel. 12211 Port Road	At head of Bayport Channel, approximately 2 miles west of Houston Ship Channel. 12211 Port Road
OWNED BY	Baytank (Houston), Inc.	Baytank (Houston), Inc.	Baytank (Houston), Inc.
OPERATED BY	Baytank (Houston), Inc.	Baytank (Houston), Inc.	Baytank (Houston), Inc.
PURPOSE FOR WHICH USED	Receipt and shipment of petrochemicals.	Receipt and shipment of petrochemicals.	Supplying bunkering barges.
TYPE OF CONSTRUCTION	Steel pile, concrete-decked, offshore wharf with three 24- by 30-foot concrete approaches; six steel and rubber cushion fender breasting dolphins along face.	Steel sheet pile bulkhead with concrete fill fronted by steel pipe piles forming barge slip with steel frame platform with steel grid deck extending outward.	Steel sheet pile bulkhead with concrete fill fronted by steel pipe piles forming barge slip.

DESCRIPTION	Face	Sides		Head	Lower side	Upper side	Head	Lower side	Upper side
Dimensions (Feet)	587	30, each		185	320	320	30	319	300
Depth Alongside at MLT Do.	40	-		12	12	12	13	13	13
Breasting Distance Do.	587	-		185	320	320	-	319	300
Total Berthing Space Do.	587	-		185	320	320	-	319	300
Width of Apron Do.	-			Open.	-	-	-	-	-
Height of Deck at MLT Do.	14			13.4	13	13	14	14	14
Load Capacity (Lbs per Sq. Ft.)	-			-			-		
Lighted or Unlighted	Lighted.			Lighted.			Lighted.		

MECHANICAL HANDLING FACILITIES	One steel-framed, overhead, hosehandling structure at rear of face with pneumatic hoist.	One 2 1/2-ton electric hydraulic crane on elevated structure for handling hose.	None.
RAILWAY CONNECTIONS	Two surface tracks serve carloading station for direct product transfer between rail cars and vessels; connect with tracks of Southern Pacific Transportation Co.	Two surface tracks serve carloading station for direct product transfer between rail cars and vessels; connect with tracks of Southern Pacific Transportation Co.	Two surface tracks serve carloading station for direct product transfer between rail cars and vessels; connect with tracks of Southern Pacific Transportation Co.
HIGHWAY CONNECTIONS	Via plant road, asphalt, 20 feet wide, from Port Road asphalt, 24 feet wide, and State Highway 146, dual lane.	Via plant road, asphalt, 20 feet wide, from Port Road asphalt, 24 feet wide, and State Highway 146, dual lane.	Via plant road, asphalt, 20 feet wide, from Port Road, asphalt, 24 feet wide, and State Highway 146, dual lane.
WATER SUPPLY (Available to Vessels)	Through one 4-inch line.	Through 4-inch line.	Through 4-inch line.
ELECTRIC POWER (Available to Vessels)	A.C., 110/440 volts.	A.C., 110/440 volts.	A.C., 110/440 volts.
FIRE PROTECTION (Other than City)	Monitors, hydrants, hose, pumps, foam system, hand extinguishers and security patrol.	Monitors, hydrants, hose, pumps, foam system, hand extinguishers, and security patrol.	Monitors, hydrants, hose, pumps, foam system, hand extinguishers, and security patrol.
REMARKS	Twelve 8-inch product pipelines, and one 8- and one 6-inch bunker pipelines extend from wharf to tankage described under Ref. No. 264.	Eight 8-inch product pipelines, and one 8- and one 6-inch bunker pipelines extend from wharf to tankage described under Ref. No. 264.	One 10-, one 8-, and one 6-inch bunker pipelines extend from wharf to tankage described under Ref. No. 264.

OIL HANDLING AND BUNKERING

Sixty-four waterfront facilities described in this report are equipped to handle crude oil, asphalt, and/or petroleum products; several provide bunkering service for vessels. Large oceangoing vessels are usually bunkered at berth by tank barges. These barges, together with their capacities and sizes, are listed separately in the table of Floating Equipment on page 154.

The table on pages 122 and 123 gives information on the oil handling and bunkering facilities; details are given in the table of Piers, Wharves, and Docks beginning on page 32 under the referencer numbers indicated. Tank storage at recreational craft service stations is not included.

LIQUID BULK HANDLING

Forty-four companies at 86 waterfront facilities handle miscellaneous liquid bulk materials other than petroleum. These companies receive and/or ship a variety of commodities including petrochemicals, chemicals, sulphur, molasses, animal fats, and vegetable oils.

A summary of the liquid bulk handling facilities is given in the table beginning on page 124 and a complete description of each facility is given in the table of Piers, Wharves, and Docks. Petroleum handling facilities are described in the previous paragraph.

DRY BULK HANDLING

There are twenty-eight companies at 36 waterfront facilities engaged in the handling of miscellaneous dry bulk materials, including sand, gravel, scrap metal, fertilizer, coke, salt, cement, and aragonite. A summary of these dry bulk handling facilities is given beginning beginning on page 127. A complete description of each facility is given in the table of Piers, Wharves, and Docks.

WAREHOUSES

In the port area, 13 companies and the Port of Houston Authority operate 22 warehouses having a total of 5,678,700 square feet of dry storage space, and 840,000 cubic feet of cooler space; all have railroad connections, and are easily accessible to arterial highways. In addition, four of the warehouses have adjacent open storage areas totaling 51 acres. Diversified handling equipment is maintained by the operators and special services are provided.

The summary on page 130 lists the operators and gives the storage capacity of the dry and cold storage facilities, and open areas which are more fully described under individual reference numbers in the table of Storage Warehouses beginning on page 131. The reference numbers identify warehouse locations on the accompanying Port Facilities Maps.

P.W.D. REF. NO.	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONGSIDE (FEET)	STORAGE TANKS NO.	STORAGE TANKS CAPACITY (BARRELS)
97(B)	Amerada Hess Corp.	150	12	137	4,500,000(I)
98(B)	Amerada Hess Corp.	150	12		
100(B)	Amerada Hess Corp.	150	12		
101(B)	Amerada Hess Corp.	300	32		
102(B)	Amerada Hess Corp.	400	45		
1	Boles, Jim	120	10	4	40,000(C)
205	Crown Central Petroleum Corp.	310	39	50	2,301,000(I)
219	Ethyl Corp.	175	17	11	140,000
8(B)	Exxon Co., U.S.A.	1,350	40	254 22	10,450,000 6,340,000(C)
10(B)	Exxon Co., U.S.A.	810+810	40		
11(B)	Exxon Co., U.S.A.	820+820	40		
12(B)	Exxon Co., U.S.A.	300	16		
13	Exxon Co., U.S.A.	240+240	16		
15	Exxon Co., U.S.A.	607+607	16		
14	Exxon Co., U.S.A.	250+400	16	2	136,000(A)
109(B)	GATX Terminals Corp.	225	36	160	5,000,000(I)
110(B)	GATX Terminals Corp.	690	36		
111(B)	GATX Terminals Corp.	275	36		
112(B)	GATX Terminals Corp.	150	12-15		
113(B)	GATX Terminals Corp.	500	14		
114(B)	GATX Terminals Corp.	400	36		
109(B)	GATX Terminals Corp.	225	36	11	800,000(I)
207	GATX Terminals Corp.	320	17	64	4,656,000(I)
208	GATX Terminals Corp.	320	17		
209	GATX Terminals Corp.	230	40		
160	Gulf States Asphalt	250	12-15	3	25,000(A)
189	Hill Petroleum Co.	250	20	98	3,074,000
190(B)	Hill Petroleum Co.	188	34		
190(B)	Hill Petroleum Co.	188	34	8	25,120(C)
54	Houston Fuel Oil Terminal Co., Inc.	250	40	18	2,520,000
55	Houston Fuel Oil Terminal Co., Inc.	500	12		
56	Houston Fuel Oil Terminal Co., Inc.	165+165	12		
57	Houston Fuel Oil Terminal Co., Inc.	165+165	12		
58	Houston Fuel Oil Terminal Co., Inc.	500	12		
245	Houston Lighting & Power Co.	100	18	7	1,200,000(F)
38	Koch Refining Co., Inc.	145	8	8-12	140,000
197(B)	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	500	12	123	9,536,000(1)
198(B)	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	375	40		
199(B)	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	490	36		
67	Oiltanking, Inc.	900+900	42	7	1,260,000(C)
68	Oiltanking, Inc.	900	42	8	1,350,000
69	Oiltanking, Inc.	1,050	15		

OIL HANDLING AND BUNKERING (Cont.)

P.W.D. REF. NO.	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONGSIDE (FEET)	STORAGE TANKS	
				NO.	CAPACITY (BARRELS)
184	Oxid, Inc.	447	32	3	39,700(I)
115	Paktank Corp.	390	34	80	936,000(I)
238	Paktank Corp.	900	18-40)	147	4,250,000(I)
239	Paktank Corp.	900	40)		
240(B)	Paktank Corp.	200+200	18)		
241	Paktank Corp.	150+150	18)		
242	Paktank Corp.	360+100	18-40)		
186	South Coast Terminal	500	32	41	97,500(I)
247	Quantum Chemical Corp.	200+200	18	7	380,000
224	Shell Oil Co.	650	37)	122 24	7,600,000 2,850,000(C)
225	Shell Oil Co.	600	40)		
226(B)	Shell Oil Co.	600	33)		
227	Shell Oil Co.	650	40)		
228(B)	Shell Oil Co.	320	41)		
151	Southern Pacific Transportation Co.	175	3-7	2	31,000(F)
250	Tenneco Oil Co.	640	16	27	113,800
103	Warren Petroleum Co., Division of Chevron U.S.A., Inc.	300	36)	81	640,500(LPG)
104	Warren Petroleum Co., Division of Chevron U.S.A., Inc.	300	36)		
105	Warren Petroleum Co., Division of Chevron U.S.A., Inc.	160	12)		
107	Warren Petroleum Co., Division of Chevron U.S.A., Inc.	150	5-9)		
108	Warren Petroleum Co., Division of Chevron U.S.A., Inc.	420	45)		
104	Warren Petroleum Co., Division of Chevron U.S.A., Inc.	300	36)	9	534,000
106	Warren Petroleum Co., Division of Chevron U.S.A., Inc.	110	12-18)		
106	Warren Petroleum Co., Division of Chevron U.S.A., Inc.	110	12-18	6	2,590

(A) Asphalt.
(B) Bunkering.
(C) Crude oil.
(F) Fuel oil for plant consumption.
(I) Includes petrochemicals/miscellaneous bulk liquids.
(LPG) Liquefied petroleum gas.

SUMMARY OF LIQUID BULK

P.W.D. REF. NO.	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONG-SIDE (FEET)	PRODUCTS	STORAGE TANKS	
					NO.	CAPACITY
97	Amerada Hess Corp.	150	12)			
98	Amerada Hess Corp.	150	12)			
100	Amerada Hess Corp.	150	12)	Petrochemicals, chemicals.	137	4,500,000 bbls. (I)
101	Amerada Hess Corp.	300	32)			
102	Amerada Hess Corp.	400	45)			
23	Arco-Lyondell Petro Chemical Co.	375	14	Petrochemicals.	7	26,342,064 gal.
264	Baytank (Houston), Inc.	587	40)			
265	Baytank (Houston), Inc.	587	40)			
266	Baytank (Houston), Inc.	185+320 +320	12))	Petrochemicals.	58	36,000,000 gal.
267	Baytank (Houston), Inc.	319+300	13)			
78	BTL Specialty Resins Corp.	300	12	Methyl alcohol.	1	17,850 bbls.
186	Cargill Inc.	500	32	Molasses. Caustic soda.	12 1	10,469,540 gal. 3,000 gal.
65	Cargill, Inc., Commodity Marketing Division.	300	35	Molasses.	2	6,130,270 gal.
262	Celanese Chemical Co., Inc.	300	15)	Petrochemicals.	19	27,258,000 gal.
263	Celanese Chemical Co., Inc.	225	37)			
205	Crown Central Petroleum Corp.	310	39	Petrochemicals.	50	2,301,000 bbls. (I)
248	Du Pont, E.I., de Nemours & Co.	200	10	Acetic acid and vinyl acetate.	2	71,500 bbls.
249	Du Pont, E.I., de Nemours & Co.	350	10	Sulfuric acid, spent sulfuric acid, and waste materials.	11	60,000 gal.
219	Ethyl Corp.	175	17	Olefin.	11	140,000 bbls.
8	Exxon Co., U.S.A.	1,350	40	Petrochemicals.)		
10	Exxon Co., U.S.A.	810+810	40	Petrochemicals,) chemicals.)	32	44.100,000 gal.
13	Exxon Co., U.S.A.	240+240	16	Petrochemicals.)		
14	Exxon Co., U.S.A.	250+500	16	Sulphur.	1	9,000 tons.
145	Exxon Chemical Co.	125	10	Petrochemicals.	3	1,717,800 gal.*
109	GATX Terminals Corp.	225	36)			
110	GATX Terminals Corp.	690	36)			
111	GATX Terminals Corp.	275	36)	Chemicals, petrochemicals, vegetable oils, and misc.	160	5,000,000 bbls. (I)
112	GATX Terminals Corp.	150	12)			
113	GATX Terminals Corp.	500	14)			
114	GATX Terminals Corp.	400	36)			
109	GATX Terminals Corp.	225	36	Chemicals, petrochemicals, vegetable oils, and misc.	11	800,000 bbls. (I)
207	GATX Terminals Corp.	320	17)			
208	GATX Terminals Corp.	320	17)	Petrochemicals, and misc.	64	4,656,000 bbls.
209	GATX Terminals Corp.	230	40)			

SUMMARY OF LIQUID BULK (Cont.)

P.W.D. REF. NO.	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONG-SIDE (FEET)	PRODUCTS	STORAGE TANKS	
					NO.	CAPACITY
220	Georgia-Gulf Corp.	490	42	Petrochemicals.	8	266,200 bbls.
234	Intercontinental Terminals, Inc.	464	12)	Miscellaneous.	72	3,000,000 bbls.
235	Intercontinental Terminals, Inc.	1,370	40)			
117	International Terminal Corp.	1,250	38	Vegetable oil.	11	3,628,800 gal.
52	Haltermann, J. I., Ltd.	500	12	Petrochemicals.	23	5,317,200 gal.
163	Houston Tank Storage Co.	519	33	Vegetable oil.	7	3,128,000 gal.
246	Lemm Corp., The	320	13	Aniline.	2	800,000 gal
197	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	500	12)	Petrochemicals.	121	9,316,000 bbls. (I)
198	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	375	40)			
199	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	490	36)			
200	Lyondell Petrochemical Co., Division of Atlantic-Richfield Co.	350	20	Sulphur.	2	6,000 tons.
201	McGinnes Industrial Maintenance Corp.	200	8	Sludge.	-	-
202	McGinnes Industrial Maintenance Corp.	480	12	Sludge.	-	-
76	Merichem Co., The	400	10	Petrochemicals.	9	110,000 bbls.
211	Mobil Mining and Minerals Co.	264	30	Anhydrous ammonia.	1	7,500 tons.
214	Mobil Mining and Minerals Co.	165	15	Liquid sulphur. Sulfuric acid.	1 4	3,000 tons. 12,000 tons.
4	Moybay Corp.	500	8	Chemicals and petrochemicals.	35	1,000,000 gal.
221	Occidental Chemical Corp.	500	32	Anhydrous ammonia.	2	30,000 tons.
230	Occidental Chemical Corp.	155	10)	Caustic soda.	16	22,300 tons.
231	Occidental Chemical Corp.	155	13)	Petrochemicals.	12	61,740,000 gal.
232	Occidental Chemical Corp.	155	12)			
232	Occidental Chemical Corp.	155	12	Chlorine.	12	2,100 tons.
67	Oiltanking, Inc.	900	42)	Tallow/veg. oil.	6	3,750 tons.
70	Oiltanking, Inc. and Stolt-Nielsen, Inc.	500	12)	Chemicals, misc.	27	18,900,000 gal.
5	OME Corp.	250	12	Slop oil.	12	2,500 bbls.
184	Oxid, Inc., Division of Chemical Exchange Industries, Inc. Co.	447	32	Petrochemicals.	3	39,700 bbls.

SUMMARY OF LIQUID BULK (Cont.)

P.W.D REF. NO.	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONG-SIDE (FEET)	PRODUCTS	STORAGE TANKS NO.	STORAGE TANKS CAPACITY
164	Pacific Molasses Co.	603	34)	Fertilizer, caustic soda, molasses, tallow and liquid wax.	32	22,520,400 gal.
165	Pacific Molasses Co.	175	34)			
167	Pacific Molasses Co.	210	30)			
115	Paktank Corp.	390	34	Petrochemicals, vegetable oils, and misc.	80	936,000 bbls.(I)
237	Paktank Corp.	200	18	Caustic soda.	10	440,000 bbls.
238	Paktank Corp.	465	40)	Petrochemicals.	147	4,250,000 bbls.(I)
239	Paktank Corp.	340	40)			
242	Paktank Corp.	360	40)			
260	PetroUnited Terminals, Inc.	240	38)	Petrochemicals.	74	1,753,400 bbls.(I)
261	PetroUnited Terminals, Inc.	120	14)			
246	Quantum Chemical Corp.	320	10	Chemicals.	10	151,200 bbls.
233	Rohm and Haas Co.	375	9	Sulfuric acid.	13	63,070 tons.
22	S.M.S. Division of Highport Industries, Inc.	150	6	Petrochemicals.	1	772,000 gal.
224	Shell Oil Co. and Shell Chemical Co.	650	37)	Petrochemicals, and chemicals.	202	71,610,000 gal.
225	Shell Oil Co. and Shell Chemical Co.	600	40)			
226	Shell Oil Co. and Shell Chemical Co.	600	33)			
227	Shell Oil Co. and Shell Chemical Co.	650	40)			
203	Simpson Pasadena Paper Co.	580	12	Spent caustic soda.	1	235,000 gal.
9	Stauffer Chemical Co.	100	30	Sulfuric acid.	2	3,200 tons.
180	Stauffer Chemical Co., Division of Rhone Poulenc Inc.	713+322 +282	10	Sulfuric acid. Liquid sulphur. Liquid alum.	24 2 2	76,800 tons. 8,000 tons. 342,000 gal.
164	Stern, Jacob, & Sons, (Texas), Inc.	603	34	Tallow and vegetable oil.	38	10,725,000 gal.
221	Tenneco Oil Co.	500	32	Methanol.	4	179,000 bbls.
250	Tenneco Oil Co.	640	16	Petrochemicals.	27	113,800 bbls.(I)
221	Tenn-USS	500	32	Petrochemicals.	3	137,700 bbls.
195	Texas Petrochemicals, Inc.	273	32)	Petrochemicals.	25	566,830 bbls.**
196	Texas Petrochemicals, Inc.	273	38)			
247	U.S.I. Chemicals Co.	200+200	18	Methanol.	2	238,000 bbls.

(I) Includes petroleum products.

* Located at company's Houston Chemical Plant, 8230 Stedman Street.

** Located at Texas Petrochemicals, Inc., 8600 Park Place.

SUMMARY OF DRY BULK HANDLING

P.W.D. REF. NO.	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONGSIDE (FEET)	HANDLING EQUIPMENT TYPE/RATE (TONS/HOUR)	PRODUCTS	STORAGE CAPACITY
22	Anahuac Towing & Shell Co.	600	10	Two diesel, crawler cranes, each with 2-cubic yard bucket.	Sand and caliche.	-
7	Arrow Cement Co.	100	10	Two front-end loaders, each with 1 1/2-cubic yard bucket.	Sand and gravel.	3 acres (open).
120	Arrow Terminals and Dravo Dravo Basics Materials Co., Inc.	1,200	32	Crawler crane with 5-cubic yard bucket (300). Two front-end loaders.	Crushed stone, ferroalloys.	50,000 tons (covered).
80	Byer's Barge Terminal, Division of Houston Compressed Steel Co.	1,100	9	Three crawler cranes, each with 72-inch electro-magnet; forklift trucks.	Scrap metal.	40 acres (open).
65	Cargo Carriers, Inc., and Cargill, Inc., Commodity Marketing Division.	300	35	Crawler crane with 4 1/2-cubic yard bucket (250 tons) and conveyor system.	Fertilizer.	33,500 tons (covered).
204	Crown Central Petroleum Corp.	250	15	Crawler crane with one 3- and one 5-cubic yard clamshell buckets (200); conveyor system. Front-end loader.	Coke.	30,000 tons (open).
206	Crown Central Petroleum Corp.	640	39	Vessel loader with conveyor system (1,000).	Coke.	24,000 tons (silos).
121	Dravo Basic Materials Co., Inc.	600	6	Crawler crane with 5-cubic yard bucket (300); front-end loaders.	Crushed stone and sand.	50,000 tons (open).
157	General Stevedores, Inc.	165+400 +200	10	Two overhead cranes, four crawler cranes, one mobile crane with 55-inch electro-magnet.	Fertilizer, feed additives, misc.	110,000 sq. ft. (covered) and 1.4 acres (open).
158	General Stevedores, Inc.	430	10	Use of mobile cranes and front-end loaders described under Ref. No. 157.	Drilling mud, salt, fertilizer, misc.	7 1/4 acres (open).
159	Gulf Coast Portland Cement Co., Division of McDonough Corp.	510+80	10	Stiff-leg derrick with 5-cubic yard bucket (300); overhead crane with 5-cubic yard bucket, (300-400).	Aragonite, clay, and cement clinker.	20,000 tons (open).

SUMMARY OF DRY BULK HANDLING (Cont.)

P.W.D. REF. NO.	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONGSIDE (FEET)	HANDLING EQUIPMENT TYPE/RATE (TONS/HOUR)	PRODUCTS	STORAGE CAPACITY
149	Houston, City of, Public Works Wastewater Division	540	9	Pneumatic pipelines.	Fertilizer.	-
72	Houston, Port of, Authority	650	40	Two towers (1,000 tons).	Fertilizer, cement clinker, misc.ores.	-
6	Houston Shell and Concrete Co.	425	12	Gantry crane with 3-cubic yard bucket, and conveyor system.	Sand and gravel.	5 storage bins.
192	Houston Shell and Concrete Co.	500		Crawler crane with clamshell.	Sand and gravel.	-
215	Kerley AG Products, Inc.	430	28	Unloading tower with 7 1/2 cubic yard clamshell bucket serving conveyor system (500).	Fertilizer.	25,000 tons (open).
122	Ideal Basic Industries, Cement Division	700	6	Pneumatic pipelines (350-450).	Cement.	82,900 tons (silos).
36	Lonestar-Falcon Cement Co., Inc.	950	41	Gantry crane with conveyor system.	Bulk cement.	10 silos and one holding bin.
181	Lone Star Industries, Inc.	400	12	Two loading arms. (150)	Cement.	47,000 tons (silos).
5	Lopez Gloria Construction Service, Inc.	350	10	Crawler crane with 3-cubic yard bucket.	Sand and gravel.	-
212	Mobil Mining and Minerals Co.	470	32	Conveyor system (300).	Fertilizer.	40,000 tons (covered).
213	Mobil Mining and Minerals Co.	615	30	Unloading tower serving conveyor system (900).	Phosphate rock.	46,000 tons (dome).
68	Oiltanking, Inc.	900	4	Conveyor/stacker system (4,000).	Aragonite.	100,000 tons (open).
69	Oiltanking, Inc.	1,050	15	Conveyor system (1,000 to 1,200).	Aragonite.	-

SUMMARY OF DRY BULK HANDLING (Cont.)

P.W.D REF. NO.	OPERATOR	BERTHING SPACE (FEET)	DEPTH ALONGSIDE (FEET)	HANDLING EQUIPMENT TYPE/RATE (TONS/HOUR)	PRODUCTS	STORAGE CAPACITY
170	Pacific Eastern Terminal, Inc.	375	20	Two crawler cranes.	Scrap metal, pig iron.	-
155	Parker Bros. & Co., Inc.	530	10	Crawler crane with 3-cubic yard bucket; conveyor system (1,500).	Sand and limestone.	15 acres (open).
156	Parker Bros. & Co., Inc.	1,100	8	Two crawler cranes with 7- and 4-cubic yard bucket, respectively; conveyor system.	Sand and shell.	15 acres (open).
203	Simpson Pasadena Paper Co.	580	12	Mobile hoist with clamshell bucket.	Wood pulp.	-
123	Southern Pacific Transportation Co.	825	12	Pneumatic pipelines.	Cement.	-
194	TXTX Marine, Inc.	1,800	6	Vessel loader; conveyor system (700). Three front-end loaders.	Coke.	-
94	TXTX Marine, Inc.	1,080	36	One ore unloader with 11-ton grab bucket (1,000); one gantry crane, with 87- and 65-inch diameter, electro-magnets and 7-cubic yard bucket; conveyor system.	Coal. Granite; coke.	60,000 tons (open). 180,000 tons (open).
95	TXTX Marine, Inc.	749	15	-	Coke.	180,000 tons (open).
119	United States Gypsum Co.	600	32	Self-unloading vessels; conveyor system (1,000).	Gypsum rock.	40,000 tons (covered).
2	USX Corp.	900	11	Gantry crane.	Scrap metal.	-
79	Walton & Son Stevedoring and Contracting Co.	242	9	Two crawler and one mobile cranes and forklift trucks.	Fertilizers and ferroalloys.	60 acres (open).
3	Warrior & Gulf Navigation Co.	230	12	Crawler crane.	Miscellaneous.	5 acres (open).

SUMMARY OF DRY AND COLD STORAGE WAREHOUSES

S.W. REF. NO.	OPERATOR	STORAGE AREA DRY (SQ.FT.)	STORAGE AREA COLD (CU.FT.)
15	American Warehouses, Inc...........	622,000 3,000(B)	-
22	American Warehouses, Inc...........	120,000	-
13	A-P Distribution & Warehouse, Inc...	60,000 10,000(B)	-
11	Buffalo Warehouse Co...............	133,300	-
10	Coffield Warehouse Co..............	220,900	-
18	General Warehouse Co...............	300,000	-
2	Manchester Terminal Corp...........	900,000(B)	-
5	New Terminal Warehouse Corp.........	453,050	-
6	New Terminal Warehouse Corp.........	126,800	-
14	North American Warehouse, Inc.......	700,000	-
8	Port of Houston Authority..........	198,700	-
3	Port of Houston Authority..........	50,000	-
7	Port of Houston Authority..........	219,850	-
4	Port of Houston Authority..........	50,000	-
9	Port City Compress & Warehouse Co., Ltd............................	475,000	-
16	Southern Warehouse Corp............	120,000	-
17	Southern Warehouse Corp............	145,000	-
19	Trammell and Crow Distribution Corp.	25,300	-
20	Trammell and Crow Distribution Corp.	300,000	-
21	Trammell and Crow Distribution Corp.	93,000	-
12	Universal Terminal Warehouse Co.....	217,800	840,000(C)
1	Wald-Pasedena Services, Inc.........	135,000	-
	TOTAL	5,678,700	840,000

(B) Bonded.
(C) Cooler.

STORAGE WAREHOUSES

WAREHOUSE REF. NO. ON MAP NO. 3	1		2	
OPERATOR AND ADDRESS	Wald-Pasedena Services, Inc. 404 N. Witter Street Pasadena, TX 77502		Manchester Terminal Corp. P.O. Box 5308 Houston, TX 77262	
LOCATION	Red Bluff Road and North Witter Street.		Foot of Manchester Avenue.	
KIND OF STORAGE	Dry.		Dry.	
COMMODITIES USUALLY STORED	Plastics and chemicals.		General merchandise, cotton, resin, flour, and fiberboard.	
DESCRIPTION Type of construction	Concrete and masonry walls; concrete floor.		Four buildings - concrete; concrete floors.	
Number of floors	One.		Three, 2-story; one, 1-story.	
Clear Height for Storage (Feet):				
First Floor................	18		11, each.	
Other Floors...............	-		11, each.	
Load Capacity (Lbs./Sq.Ft.):				
First Floor................	10,000			
Other Floors...............	-		500, each.	
			250, each.	
AREAS FOR PUBLIC STORAGE:	DRY STORAGE	COLD STORAGE	DRY STORAGE	COLD STORAGE
General Storage....(Sq.Ft.)	135,000	-	900,000	-
U.S. Customs Bonded(Sq.Ft.)	-	-	900,000	-
Cooler Space.......(Cu.Ft.)	-	-	-	-
Freezer Space......(Cu.Ft.)	-	-	-	-
Convertible Space..(Cu.Ft.)	-	-	-	-
RAILWAY CONNECTIONS	Two surface tracks serve warehouse with 17 loading stations; connect with tracks of Southern Pacific Transportation Co.		Port Terminal Railroad: Four platform-level tracks serve warehouse; total capacity 70 cars; eight rail-loading stations.	
TRUCKLOADING STATIONS	Seven.		Two @ platform; two @ doors.	
HANDLING EQUIPMENT	Five 2 1/2-ton, gasoline, forklift trucks.		One 26-, one 15-, and fifty-five 2 1/2-ton, gasoline forklift trucks; and one 40-ton container handler.	
FIRE PROTECTION	Security service, sprinkler system, and hand extinguishers.		Sprinkler system, one 100,000-gallon water tower, hydrants, hose, pumps, and watchmen.	
REMARKS	-		Warehouses located in rear of transit shed on Manchester Terminal Wharf (P.W.D. Ref. No. 191). Approximately 49 acres of adjacent open storage area are available.	

STORAGE WAREHOUSES (CONT.)

WAREHOUSE REF. NO. ON MAP NO. 3	3		4	
OPERATOR AND ADDRESS	Port of Houston Authority 1519 Capitol Avenue/P.O. Box 2562 Houston, TX 77001		Port of Houston Authority 1519 Capitol Avenue, P.O. Box 2562 Houston, TX 77001	
BUILDING DESIGNATION/S	Building 25-A		Building 21-A.	
LOCATION	Rear of Public Wharf No. 25 (P.W.D. Ref. No. 133).		Rear of Public Wharf No. 21 (P.W.D. Ref. No. 135).	
KIND OF STORAGE	Dry.		Dry.	
COMMODITIES USUALLY STORED	General merchandise.		General merchandise.	
DESCRIPTION Type of Construction	Steel frame; metal-covered; concrete floor.		Steel frame; metal-covered; concrete floor.	
Number of Floors	One.		One.	
Clear Height for Storage (Feet):				
First Floor................	20		20	
Other Floors...............	-		-	
Load Capacity (Lbs.\Sq.Ft.):				
First Floor................	1,000		1,000	
Other Floors...............	-		-	
AREAS FOR PUBLIC STORAGE:	DRY STORAGE	COLD STORAGE	DRY STORAGE	COLD STORAGE
General Storage....(Sq.Ft.)	50,000	-	50,000	-
U.S. Customs Bonded(Sq.Ft.)	-	-	-	-
Cooler Space........(Cu.Ft.)	-	-	-	-
Freezer Space......(Cu.Ft.)	-	-	-	-
Convertible Space..(Cu.Ft.)	-	-	-	-
RAILWAY CONNECTIONS	Port Terminal Railroad: One 500-foot, platform-level track along west side of warehouse; total capacity 10 cars.		Port Terminal Railroad: One 500-foot, platform-level track along southwest side of warehouse; total capacity 10 cars.	
TRUCKLOADING STATIONS	Ten @ platform; access to interior.		Ten @ platform; access to interior.	
HANDLING EQUIPMENT	Use of equipment described under P.W.D. Ref. Nos. 129 and 130.		Use of equipment described under P.W.D. Ref. Nos. 129 and 130.	
FIRE PROTECTION	Automatic detection and sprinkler systems, hydrants, hose, hand extinguishers, and security patrol.		Automatic detection and sprinkler system, hydrants, hose, hand extinguishers, and security patrol.	
REMARKS	Approximately 0.6 acre of adjacent open storage area is available.		Approximately 0.6 acre of adjacent open storage area is available.	

STORAGE WAREHOUSES (CONT.)

WAREHOUSE REF. NO. ON MAP NO. 3	5		6	
OPERATOR AND ADDRESS	New Terminal Warehouse Corp. P.O. Box 5398 Houston, TX 77262		New Terminal Warehouse Corp. P.O. Box 5398 Houston, TX 77262	
BUILDING DESIGNATION/S	Sections 12, 13, and 14.		Sections 21 through 28.	
LOCATION	1 Wharf Street at Broadway and 81st Streets.		1 Wharf Street (rear of P.W.D. Ref. No. 169).	
KIND OF STORAGE	Dry.		Dry.	
COMMODITIES USUALLY STORED	Agricultural bagged goods.		General merchandise.	
DESCRIPTION Type of Construction	Three buildings - Sections 12 and 14, timber frame, metal-covered; Sectino 13, brick; all with concrete floors.		Timber frame, metal-covered; concrete and asphalt-surfaced floors.	
Number of Floors	Sections 12&14, one.	Section 13, five.	One.	
Clear Height for Storage (Feet):				
First Floor..	15 & 13-154	7	16	
Other Floors...............	-	7	-	
Load Capacity (Lbs./Sq.Ft.):				
First Floor................	1,000	1,000	1,000	
Other Floors...............	-	200	-	
AREAS FOR PUBLIC STORAGE:	DRY STORAGE	COLD STORAGE	DRY STORAGE	COLD STORAGE
General Storage....(Sq.Ft.)	453,050	-	126,800	-
U.S. Customs Bonded(Sq.Ft.)	-	-	-	-
Cooler Space.......(Cu.Ft.)	-	-	-	-
Freezer Space......(Cu.Ft.)	-	-	-	-
Convertible Space..(Cu.Ft.)	-	-	-	-
RAILWAY CONNECTIONS	One 800-foot, platform-level track along east side of warehouse, total capacity 13 cars; connects with Houston Belt & Terminal Railway.		One 900-foot platform-level track along west side of warehouse.	
TRUCKLOADING STATIONS	-		-	
HANDLING EQUIPMENT	Use of equipment described under P.W.D. Ref. No. 169.		Use of equipment described under P.W.D. Ref. No. 169.	
FIRE PROTECTION	Automatic detection and sprinkler system, one 100,000-gallon water tower, hose, and hand extinguishers.		-	
REMARKS	-		-	

STORAGE WAREHOUSES (Cont.)

WAREHOUSE REF. NO. ON MAP NO. 3	7		8	
OPERATOR AND ADDRESS	Port of Houston Authority 1519 Capitol Avenue, P.O. Box 2562 Houston, TX 77001		Port of Houston Authority 1519 Capitol Avenue, P.O. Box 2562 Houston, TX 77001	
BUILDING DESIGNATION/S	-		Building 4-A.	
LOCATION	Rear of Public Wharves Nos. 41-48 (P.W.D. Ref. No. 168).		Rear of Public Wharf No. 4 (P.W.D. Ref. No. 161).	
KIND OF STORAGE	Dry.		Dry.	
COMMODITIES USUALLY STORED	General merchandise.		General merchandise.	
DESCRIPTION Type of construction	Two buildings - one concrete; one timber frame, part metal and part concrete walls; all with concrete floors.		One U-shaped, concrete; concrete floor.	
Number of Floors	Two and one.		One.	
Clear Height for Storage (Feet):				
First Floor	15, each.		13.5-16 and 24-26	
Other Floors	15		-	
Load Capacity (Lbs.\Sq.Ft.):				
First Floor	1,000, each.		1,000	
Other Floors	150		-	
AREAS FOR PUBLIC STORAGE:	DRY STORAGE	COLD STORAGE	DRY STORAGE	COLD STORAGE
General Storage....(Sq.Ft.)	219,850	-	198,700	-
U.S. Customs Bonded(Sq.Ft.)	-	-	-	-
Cooler Space.......(Cu.Ft.)	-	-	-	-
Freezer Space......(Cu.Ft.)	-	-	-	-
RAILWAY CONNECTIONS	One 3,000-foot platform-level track along west side of each warehouse joins additional trackage serving transit shed and receiving platforms; connects with Houston Belt & Terminal Railway.		Port Terminal Railroad: Two 980-foot platform-level tracks between wings of warehouse and one 600-foot platform-level track along east side.	
TRUCKLOADING STATIONS	-		Eight; access to interior.	
HANDLING EQUIPMENT	Use of equipment described under P.W.D. Ref. No. 168.		Use of equipment described under P.W.D. Ref. No. 161.	
FIRE PROTECTION	Automatic detection and sprinkler system; one 100,000-gallon water tower; hydrants, hose, water barrels, and security patrol.		Automatic detection and sprinkler system, hydrants, hose, pumps, and security patrol.	
REMARKS	Additional 149,400 square feet of space in available on 2d floor of adjacent transit shed. Approximately 0.3 acre of adjacent open storage area is available.		-	

STORAGE WAREHOUSES (Cont.)

WAREHOUSE REF. NO. ON MAP NO. 3	9		10	
OPERATOR AND ADDRESS	Port City Compress & Warehouse Co., Ltd. P.O. Box 2082 Houston, TX 77252		Coffield Warehouse Co. P.O. Box 15355 Houston, TX 77220	
LOCATION	8300 Buchanan Street (east end).		15 Japhet Street	
KIND OF STORAGE	Dry.		Dry.	
COMMODITIES USUALLY STORED	General merchandise and cotton.		General merchandise, rubber, plastics, and tires.	
DESCRIPTION Type of construction	Six buildings - 2 concrete and 4 timber frame, metal-covered; concrete and asphalt floors.		Steel and timber frame, concrete and metal-covered walls, concrete floor, divided into sections.	
Number of Floors	One, each.		One.	
Clear Height for Storage (Feet):				
First Floor.................	15, each.		12	
Other Floors................	-		-	
Load Capacity (Lbs./Sq.Ft.):				
First Floor.................	1,000, each.		1,000	
Other Floors................	-		-	
AREAS FOR PUBLIC STORAGE:	DRY STORAGE	COLD STORAGE	DRY STORAGE	COLD STORAGE
General Storage....(Sq.Ft.)	475,000, total.	-	220,900	-
U.S. Customs Bonded(Sq.Ft.)	-	-	-	-
Cooler Space.......(Cu.Ft.)	-	-	-	-
Freezer Space......(Cu.Ft.)	-	-	-	-
Convertible Space..(Cu.Ft.)	-	-	-	-
RAILWAY CONNECTIONS	Two surface tracks serve warehouses; total capacity 40 cars; connect with tracks of Southern Pacific Transportation Co., and Houston Belt & Terminal Railway.		Four platform-level and one surface track serve warehouse and adjacent Buffalo Warehouse Co. warehouse (S.W. Ref. No. 11); total capacity 50 cars; connect with tracks of Southern Pacific Transportation Co.	
TRUCKLOADING STATIONS	Sixteen.		Nine.	
HANDLING EQUIPMENT	Ten 2 1/2-ton LPG forklift trucks.		Ten 3- to 4-ton LPG forklift trucks.	
FIRE PROTECTION	Automatic detection and sprinkler system, one 100,000-gallon water tower, hydrants, hose, and hand extinguishers.		Automatic detection and sprinkler system, one 100,000-gallon water tower, hand extinguishers, and security patrol.	
REMARKS	Cotton compressing and warehousing are major activities.		-	

STORAGE WAREHOUSES (Cont.)

WAREHOUSE REF. ON MAP NO. 3	11		12	
OPERATOR AND ADDRESS	Buffalo Warehouse Co. P.O. Box 15355 Houston, TX 77220		Universal Terminal Warehouse Co. P.O. Box 1399 Houston, TX 77251	
LOCATION	15 Japhet Street		800 Burnett Street at Freeman Street	
KIND OF STORAGE	Dry.		Dry and cooler.	
COMMODITIES USUALLY STORED	General merchandise, rubber, plastics, and appliances.		General merchandise, perishable food commodities, and medical supplies.	
DESCRIPTION Type of Construction	Timber frame; concrete walls and floor.		Concrete tiltwall; concrete floors.	
Number of Floors	One.		One.	
Clear Height for Storage (Feet):				
First Floor..................	12		21	
Other Floors.................	-		-	
Load Capacity (Lbs/Sq.Ft.):				
First Floor..................	1,000		1,000	
Other Floors.................	-		-	
AREAS FOR PUBLIC STORAGE:	DRY STORAGE	COLD STORAGE	DRY STORAGE	COLD STORAGE
General Storage.....(Sq.Ft.)	133,300	-	217,800	-
U.S. Customs Bonded.(Sq.Ft.)	-	-	-	-
Cooler Space........(Cu.Ft.)	-	-	-	840,000
Freezer Space.......(Cu.Ft.)	-	-	-	-
Convertible Space...(Cu.Ft.)	-	-	-	-
RAILWAY CONNECTIONS	Four platform-level and one surface tracks serve warehouse and adjacent Coffiled Warehouse Co. warehouse (S.W. Ref. No. 10); total capacity 50 cars; connect with tracks of Southern Pacific Transportation Co.		One surface track at carfloor-level alongside warebosue; capacity 8 cars; connects with tracks of Southern Pacific Transportation Co.	
TRUCKLOADING STATIONS	One.		Thirty-three.	
HANDLING EQUIPMENT	Use of equipment listed under S.W. Ref. No. 10).		Nine electric, and 11 propane 1- to 2 1/2-ton forklift trucks.	
FIRE PROTECTION	Automatic detection and sprinkler system, one 100,000-gallon water tower, hand extinguishers, and security patrol.		Automatic detection and sprinkler system, and hand extinguishers.	
REMARKS	Warehouse is owned by Coffield Warehouse Co.		Freon refrigeration system, temperature to 65°F.	

STORAGE WAREHOUSES (Cont.)

WAREHOUSE REF. NO. ON MAP NO. 3	13		14 OFF MAP	
OPERATOR AND ADDRESS	A-P Distribution & Warehouse, Inc. P.O. Box 15729 Houston, TX 77220		North American Warehouse, Inc. P.O. Box 1758 Houston, TX 77001	
LOCATION	1052 Lockwood Drive, between Clinton Drive and Interstate Highway 10.		2300 Quitman Street, west of Eastex Freeway, U.S. Highway 59.	
KIND OF STORAGE	Dry.		Dry.	
COMMODITIES USUALLY STORED	General merchandise.		General merchandise, industrial products, petrochemicals, petroleum products, and agricultural chemicals.	
DESCRIPTION Type of Construction	Steel frame, metal-covered; concrete floor.		Nine units - reinforced concrete; asphalt floor; compartments separated by firewalls.	
Number of floors	One.		One, each.	
Clear Height for Storage (Feet):			15, each.	
First Floor..................	20		-	
Other Floors..................	-			
Load Capacity (Lbs./Sq.Ft.):			Unlimited, each.	
First Floor..................	Unlimited.		-	
Other Floors..................	-			
AREAS FOR PUBLIC STORAGE:	DRY STORAGE	COLD STORAGE	DRY STORAGE	COLD STORAGE
General Storage.....(Sq.Ft.)	60,000	-	700,000, total.	-
U.S. Customs Bonded.(Sq.Ft.)	10,000	-	-	-
Cooler Space........(Cu.Ft.)	-	-	-	-
Freezer Space.......(Cu.Ft.)	-	-	-	-
Convertible Space...(Cu.Ft.)	-	-	-	-
RAILWAY CONNECTIONS	One carfloor-level track with four rail carloading stations connects with tracks of Southern Pacific Transportation Co. and Houston Belt & Terminal Railway.		Approximately 10,000 feet of surface and platform-level tracks alongside warehouse units; connect with Houston Belt & Terminal Railway and tracks of Southern Pacific Transportation Co.	
TRUCKLOADING STATIONS	Sixteen.		Seventy.	
HANDLING EQUIPMENT	Several LP-gas forklift trucks.		Ten 2- and 4-ton forklift trucks.	
FIRE PROTECTION	Sprinkler system.		Automatic detection and sprinkler system.	
REMARKS	-		-	

STORAGE WAREHOUSES (Cont.)

WAREHOUSE REF. NO. ON MAP NO. -	15		16	
OPERATOR AND ADDRESS	American Warehouses, Inc. P.O. Box 1816 Houston, TX 77251		Southern Warehouse Corp. P.O. Box 19503 Houston, TX 77024	
LOCATION	1918 Collingsworth Street		8020 Katy Freeway	
KIND OF STORAGE	Dry.		Dry.	
COMMODITIES USUALLY STORED	General merchandise, plastics, chemicals, and hazardous materials.		General merchandise.	
DESCRIPTION Type of Construction	Concrete block walls; concrete floor.		Masonry walls; concrete floor.	
Number of Floors	One.		One.	
Clear Height for Storage (Feet):				
First Floor.................	22		22	
Other Floors................	-		-	
Load Capacity (Lbs/Sq.Ft.):				
First Floor.................	Unlimited.		2,000	
Other Floors................	-		-	
AREAS FOR PUBLIC STORAGE:	DRY STORAGE	COLD STORAGE	DRY STORAGE	COLD STORAGE
General Storage.....(Sq.Ft.)	622,000	-	120,000	-
U.S. Customs Bonded.(Sq.Ft.)	3,000	-	-	-
Cooler Space........(Cu.Ft.)	-	-	-	-
Freezer Space.......(Cu.Ft.)	-	-	-	-
Convertible Space...(Cu.Ft.)	-	-	-	-
RAILWAY CONNECTIONS	Three carfloor-level tracks with fifty-five rail car-loading stations; connect with Houston Belt & Terminal Railway and tracks of Southern Pacific Transportation Co.		One 6-car-capacity, surface track connects with Missouri-Kansas-Texas Railroad.	
TRUCKLOADING STATIONS	Fifty-two.		Twenty.	
HANDLING EQUIPMENT	One 3- and nineteen 2-ton LP-gas and electric forklift trucks.		Six 2 1/2-ton LP-gas forklift trucks.	
FIRE PROTECTION	Automatic detection and sprinkler system.		Automatic detection and sprinkler system, hose, and hand extinguishers.	
REMARKS	Stretch wrapping, palletizing, strapping, and container stuffing.		Main office is located at 8550 Katy Freeway, Suite 318.	

STORAGE WAREHOUSES (Cont.)

WAREHOUSE REF. NO. ON MAP NO. -	17		18	
OPERATOR AND ADDRESS	Southern Warehouse Corp. P.O. Box 19503 Houston, TX 77024		General Warehouse Co. 7745 Cannon Street Houston, TX 77021	
LOCATION	4411 Darien Street		Same as above.	
KIND OF STORAGE	Dry.		Dry.	
COMMODITIES USUALLY STORED	General merchandise.		Plastics and chemicals.	
DESCRIPTION Type of Construction	Masonry walls; concrete floor.		Tilt-up concrete walls; concrete floors.	
Number of Floors	One.		One, each.	
Clear Height for Storage (Feet):				
First Floor.................	22		35, each.	
Other Floors................	-		-	
Load Capacity (Lbs/Sq.Ft.):				
First Floor.................	2,000		1,000, each.	
Other Floors................	-		-	
AREAS FOR PUBLIC STORAGE:	**DRY STORAGE**	**COLD STORAGE**	**DRY STORAGE**	**COLD STORAGE**
General Storage.....(Sq.Ft.)	145,000	-	300,000	-
U.S. Customs Bonded.(Sq.Ft.)	-	-	-	-
Cooler Space........(Cu.Ft.)	-	-	-	-
Freezer Space.......(Cu.Ft.)	-	-	-	-
Convertible Space...(Cu.Ft.)	-	-	-	-
RAILWAY CONNECTIONS	One 6-car-capacity, surface track connects with tracks of Southern Pacific Transportation Co.		One carfloor-level track at each building, with six and four rail car-loading stations; connects with tracks of Southern Pacific Transportation Co.	
TRUCKLOADING STATIONS	Twenty-four.		Two at platform, 8 doors and ten doors.	
HANDLING EQUIPMENT	Use of equipment described under S.W. Ref. No. 16.		Fifteen 2 1/2-ton, gasoline forklift trucks.	
FIRE PROTECTION	Automatic detection and sprinkler system, hose, and hand extinguishers.		Sprinkler system, hose, and hand extinguishers.	
REMARKS	Main office is located at 8550 Katy Freeway, Suite 318.		-	

STORAGE WAREHOUSES (Cont.)

WAREHOUSE REF. NO. ON MAP NO. -	19		20	
OPERATOR AND ADDRESS	Trammell and Crow Distribution Corp. 3860 West 11th Street Houston, TX 77055		Trammell and Crow Distribution Corp. 4301 Blaylock Street Houston, TX 77041	
LOCATION	Same as above.		Same as above.	
KIND OF STORAGE	Dry.		Dry.	
COMMODITIES USUALLY STORED	General merchandise.		General merchandise.	
DESCRIPTION Type of construction	Tilt-up concrete walls, concrete floors.		Tilt-up concrete walls; concrete floors.	
Number of floors	One.		One.	
Clear Height for Storage (Feet):				
First Floor................	21		21	
Other Floors...............	-		-	
Load capacity (Lbs./Sq. Ft.):				
First Floor................	1,000		1,000	
Other Floors...............	-		-	
AREAS FOR PUBLIC STORAGE:	DRY STORAGE	COLD STORAGE	DRY STORAGE	COLD STORAGE
General Storage... (Sq.Ft.)	25,300	-	300,000	-
U.S. Custom Bonded. (Sq.Ft.)	-	-	-	-
Cooler Space....... (Cu.Ft.)	-	-	-	-
Freezer Space...... (Cu.Ft.)	-	-	-	-
Convertible Space.. (Cu.Ft.)	-	-	-	-
RAILWAY CONNECTIONS	One carfloor-level track with three rail car loading stations connects with tracks of Southern Pacific Transportation Co.		Two tracks with rail car-loading stations connect with Missouri-Kansas-Texas Railroad.	
TRUCKLOADING STATIONS	Three doors.		Twenty-nine doors.	
FIRE PROTECTION	Sprinkler system.		Sprinkler system.	
REMARKS	-		-	

STORAGE WAREHOUSES (Cont.)

WAREHOUSE REF. NO. ON MAP NO. -	21		22	
OPERATOR AND ADDRESS	Trammell Crow Distribution Corp. 3262 East Loop North Houston, TX 77029		American Warehouses, Inc. P.O. Box 1816 Houston, TX 77001	
LOCATION	Same as above.		1002 Washington Avenue	
KIND OF STORAGE	Dry.		Dry.	
COMMODITIES USUALLY STORED	General merchandise.		General merchandise.	
DESCRIPTION Type of Construction	Tilt-up concrete walls; concrete floors.		Concrete walls and floors.	
Number of Floors	One.		Four and basement.	
Clear Height for Storage (Feet):				
First Floor..................	21		11	
Other Floors.................	-		9	
Basement.....................	-		9	
Load Capacity Lbs/Sq.Ft.):				
First Floor..................	1,000		300	
Other Floors.................	-		300	
Basement.....................	-		Unlimited.	
AREAS FOR PUBLIC STORAGE:	**DRY STORAGE**	**COLD STORAGE**	**DRY STORAGE**	**COLD STORAGE**
General Storage.....(Sq.Ft.)	93,000	-	120,000	-
U.S. Customs Bonded.(Sq.Ft.)	-	-	-	-
Cooler Space........(Cu.Ft.)	-	-	-	-
Freezer Space.......(Cu.Ft.)	-	-	-	-
Convertible Space...(Cu.Ft.)	-	-	-	-
RAILWAY CONNECTIONS	One car-floor level track with 6 rail car-loading stations connects with Union Pacific Railroad.		One 6-car-capacity, carfloor-level track along east side of warehouse; connects with tracks of Southern Pacific Transportation Co.	
TRUCKLOADING STATIONS	Fourteen doors.		Twelve.	
HANDLING EQUIPMENT	Six electric and LP-gas forklift trucks.		One 3- and two 2-ton, electric, freight elevators; six 2-ton electric and LP-gas forklift trucks.	
FIRE PROTECTION	Sprinkler system.		Automatic detection and sprinkler system, booster pump, hose, and hand extinguishers.	
REMARKS	-		Main office and additional warehouse (S.W. Ref. No. 15) located at 1918 Collingsworth Street.	

GRAIN ELEVATORS

Five waterfront grain elevators serve the port and are used primarily for the movement of export grain which is received by barge, rail, and truck. Each elevator is supported by adjoining rail yards and has electrically-driven belt conveyors in overhead galleries extending from elevators to dockside.

Cargill, Inc. (P.W.D. Ref. Nos. 64 and 65), International Terminal Corp. (P.W.D. Ref. No. 118), and the Port of Houston Authority (P.W.D. Ref. Nos. 140 and 141), each operates an elevator on the left side of the Houston Ship Channel; and El Campo Rice Milling Co., Inc. (P.W.D. Ref. No. 185) and Union Equity Cooperative Exchange (P.W.D. Ref. No. 236), each operates an elevator on the right side of the channel.

Louis Dreyfus Corp. also operates a public grain storage facility consisting of 21 steel storage tanks with a total capacity of 500,000 bushels.

The table on pages 143 and 144 gives detailed descriptions of the five elevators.

OPEN STORAGE

In addition to the long- and short-term, covered storage facilities for waterborne cargo, there are 25 waterfront locations providing a total of approximately 230 acres of public open storage area. A tabulation of these storage areas is provided in the Summary of General Cargo beginning on page 30.

Twenty-two public storage warehouses within the city and adjacent suburbs, provide 51 acres of open storage area. A tabulation of these facilities is provided in the table of Storage Warehouses beginning on page 131. Other operators have waterfront open storage facilities to meet their own operational requirements and are not included in this report.

HOISTING EQUIPMENT - ASHORE AND AFLOAT

General cargo at the port is usually handled to and from vessels by ships' tackle. However, shore-based hoisting facilities with lifting capacities ranging up to 300 tons and floating cranes and derricks with lifting capacities ranging up to 800 tons are available to the public for performing heavy-lift work at shipside.

The tables on pages 145 and 146 give details of the hoisting equipment - ashore and afloat, available for hire. Other cranes, derricks, and special-handling equipment, are generally for the sole use of the operating companies, and are described under "Mechanical Handling Facilities" in the preceding table of Piers, Wharves, and Docks.

In addition to the cranes described in the tables, other land-based cranes with capacities of up to 300 tons are available locally on a rental basis.

GRAIN ELEVATORS

P.W.D. REF. NO.	64, 65		118		140, 141	
NAME	Cargill Houston Grain Elevator		International Terminal Elevator		Port of Houston Public Grain Elevator.	
OPERATOR AND ADDRESS	Cargill, Inc. P.O. Box 220 Channelview, TX 77530		International Terminal Corp. 1606 Clinton Drive Galena Park, TX 77547		Port of Houston Authority P.O. Box 2562 Houston, TX 77252	
LOCATION	Left side, Houston Ship Channel, approximately 1 mile above Jacintoport Slip.		Galena Park, left side of Houston Ship Channel, above slip, approximately 400 feet below foot of South Main Street extended.		Left side of Houston Ship Channel, in rear of Public Wharf No. 14 (P.W.D. Ref. No. 14).	
BERTHING SPACE (FEET)	750, each side of pier; 300 @ wharf.		650		960, total 2 wharves.	
TYPE CONSTRUCTION	108 concrete silos.		56 concrete silos and 6 steel storage tanks.		320 concrete silos with 236 interstices and 46 steel storage bins.	
STORAGE CAPACITY	6,500,000 bushels.		6,300,000 bushels.		4,580,000 bushels.	
	UNLOADING EQUIPMENT	RATE PER HR.	UNLOADING EQUIPMENT	RATE PER HR.	UNLOADING EQUIPMENT	RATE PER HR.
BARGES	1 crane.	-	-	-	-	-
RAIL CARS	1 undertrack pits.	6 cars	3 undertrack pits.	20	4 undertrack pits.	12
TRUCKS	1 dumper.	25	2 dumpers.	20	2 dumpers.	25
	LOADING EQUIPMENT	RATE PER HR.	LOADING EQUIPMENT	RATE PER HR.	LOADING EQUIPMENT	RATE PER HR.
VESSELS	12 spouts.	70,000 bu.	3 spouts.	120,000 bu.	13 spouts.	80,000 bu.
RAIL CARS	1 spouts.	3	1 spout.	14,000 bu.	2 spouts.	12,000 bu.
TRUCKS	Use of rail car loading spouts.	15	1 spout.	-	2 spouts.	8
OTHER EQUIPMENT	Drier, cleaner, and scales.		3 bagging machines.		Automatic scales, temperature control, and dust collection system.	
RAILROAD CONNECTIONS	Port Terminal Railroad: One surface track serves hopper car receiving pit and loading spout in car shed; connects with 267-car-capacity grain elevator storage yard.		Southern Pacific Transportation Co.: Three surface tracks serve hopper car receiving pits; additional tracks for storage; total capacity 400 cars.		Port Terminal Railroad: Five surface tracks serve hopper car receiving pits and loading spouts in car shed, join with additional trackage serving elevator; total capacity 110 cars.	
REMARKS	Grain is received by barge at adjacent Cargo Carriers Dock (P.W.D. Ref. No. 65) and is unloaded by crane with clamshell bucket into receiving hopper on wharf, thence by electric belt conveyor to truck- loading spout on shore; trucks transfer grain to dumper at elevator.		-		Grain gallery with vessel-loading spouts extends along full length of Public Wharves Nos. 14 and 15 (5 spouts on Wharf No. 14 and 8 spouts on Wharf No. 15).	

GRAIN ELEVATORS

P.W.D. REF. NO.	185		236	
NAME	ELCO Shipside Elevator		Union Equity Cooperative Exchange Grain Elevator	
OPERATOR AND ADDRESS	El Campo Rice Milling Co., Inc. P.O. Box 5128/9100 Becker Street Houston, TX 77262		Union Equity Cooperative Exchange Tidal Road Deer Park, TX 77536	
LOCATION	Right side of Houston Ship Channel, approximately 450 feet below East Loop Freeway Bridge (Interstate Highway 610).		Right side of Houston Ship Channel, inner end of Union Equity Slip, opposite Jacintoport Slip.	
BERTHING SPACE (FEET)	500		600, each side of pier; 50, each side of pier.	
TYPE CONSTRUCTION	52 concrete silos and 49 storage bins.		118 concrete silos and interstices.	
STORAGE CAPACITY	60,000 tons.		8,500,000 bushels.	
	UNLOADING EQUIPMENT	RATE PER HOUR	UNLOADING EQUIPMENT	RATE PER HOUR
BARGES	-	-	-	-
RAIL CARS	2 undertrack pits.	6 hopper cars.	1 car dumper and 3 cars.	16 hopper undertrack pits.
TRUCKS	2 truck dumpers.	20	2 truck dumpers.	50
	LOADING EQUIPMENT	RATE PER HOUR	LOADING EQUIPMENT	RATE PER HOUR
VESSELS	1 spout.	500 tons.	4 spouts.	50,000 bu.
RAIL CARS	2 spouts.	6	1 spout.	6
TRUCKS	1 spout.	6	1 spout.	6
OTHER EQUIPMENT	Cleaners, trimmers, and scales.		Trimmers, scales, temperature control, driers, cleaners, and aeration equipment.	
RAILROAD CONNECTIONS	Port Terminal Railroad: Two surface tracks serve hopper car receiving pits and loading spouts; total capacity 24 cars; additional tracks serving elevator connect with Manchester Yard; total capacity 750 cars.		Port Terminal Railroad: Three surface tracks serve car dumper, loading spout, and 3 rail hopper car receiving pits in car shed; join with 400-car-capacity grain elevator storage yard.	
REMARKS	-		Upper side of grain pier is used for loading vessels, lower side for mooring.	

HOISTING EQUIPMENT - ASHORE

P.W.D. REF. NO.	OPERATOR	CRANE			
		NO.	TYPE	BOOM LENGTH (FEET)	LIFT CAPACITY (TONS)
61	Care Shipping Terminal, Inc.	1	Diesel, crawler	130	300
157	General Stevedores, Inc.	1	Electric, traveling, overhead w/two hoists.	50 (beyond face of wharf)	10
		1	Electric, traveling, overhead w/two hoists.	50 (beyond face of wharf)	15
157,158	General Stevedores, Inc.	1	Diesel, crawler.	75	150
		1	Diesel, crawler.	55-50	35
		1	Diesel, crawler.	55-50	25
		1	Diesel, crawler.	55-50	20
		1	Diesel, mobile.	75	85
93,88	Greens Bayou Terminal Co. and Joe D. Hughes, Inc.,	1	Diesel, crawler.	130	200
		1	Diesel, crawler.	140	70
		1	Diesel, crawler.	110	50
60	Inbesa America, Inc.	2	Electric, traveling, full-portal gantry.	-	100
116,117	International Terminal Corp.	2	Diesel, mobile.	200	300
191	Manchester Terminal Corp.	2	Diesel, mobile.	-	125
		1	Diesel, mobile.	-	75
		1	Diesel, mobile.	-	50
	Port of Houston Authority				
128-144 146,147	Public Wharves Nos. 32 - 8	1	Diesel-electric, traveling, straight-line container.	113 (outreach) 30 (backreach)	40
			Diesel-electric, traveling, full-portal, revolving gantry.	100	30
163,164	Public Wharves Nos. 1-2	1	Diesel, mobile.	100	150
		4	Diesel, mobile.	100	80
		2	Diesel, mobile.	100	50
168	Public Wharves Nos. 41-48	1	Elevated, electric, stiff-leg derrick.	90	75
254,255	Barbours Cut Terminal, Berths Nos. 2 and 1	2	Electric, traveling, straight-line container.	107 (outreach) 60 (back reach)	30
		1	Diesel mobile.	120	82
252	Sealand Service, Inc.	2	Electric, traveling, straight-line container.	107 (outreach) 60 (back reach)	40
253	Sealand Service, Inc.	2	Electric, traveling, straight-line container.	107 (outreach) 60 (back reach)	30

Note: Stevedore equipment available at all Port of Houston Public Wharves (P.W.D. Ref. Nos. 128-144, 146, 147, 163, 164, 168, 252, and 253)

HOISTING EQUIPMENT - AFLOAT

(a) OPERATOR AND ADDRESS (b) BASE FROM WHICH OPERATED	NAME OR NUMBER	DIMENSIONS OVERALL		HOISTING EQUIPMENT		
		LENGTH (FEET)	WIDTH (FEET)	TYPE OF CRANE	BOOM LENGTH (FEET)	LIFT CAPACITY (TONS)
(a) Brown & Root Marine Operators, Inc. P.O. Box 9807 Houston, TX 77213-9807	Foster Parker	350	100	Diesel-electric derrick.	230	800
	L.B. Meaders	400	100	Diesel-electric derrick.	200	500
	Geo. R. Brown	350	100	Diesel-electric revolving crane.	230	500
	BAR 297	350	100	Diesel-electric revolving crane.	230	500
	Herman B	260	60	One steam hammerhead and one diesel revolving crane.	160, diesel crane	250 & 75
	H.A. Lindsay	300	90	Diesel-electric revolving crane.	230	250
	L.T. Bolin	260	48	Diesel-electric crane.	125	50
(a) Greens Bayou Terminal 14035 Industrial Road P.O. Box 96469 Houston, TX 77213-6469 (b) P.W.D. Ref. No. 88	Big John	180	70	Diesel-electric derrick.	215	500, at 15-foot outboard reach.
(a) John Bludworth Marine, Inc. P.O. Box 6504 Pasadena, TX 77506 (b) P.W.D. Ref. No. 210	-	85	35	Diesel crane.	60	40

MARINE REPAIR PLANTS AND DRYDOCKING EQUIPMENT

Eight companies operate waterfront facilities at the port for the construction, repair, and conversion of oceangoing vessels, barges, offshore oil drilling platforms, and tugs, towboats, workboats, and other types of small vessels. Gas-freeing and steam-cleaning services for tank barges are also available at five of the plants. Thirteen floating drydocks and three marine railways are located at two of the plants. Lifting capacities of the floating drydocks range from 150 to 1,800 long tons. Haul-out capacities of the marine railways range from 1,000 to 1,200 tons. Detailed descriptions of these facilities are found in the table of Marine Repair Plants and Drydocking Equipment beginning on page 149.

The Port of Houston also has a number of plants without waterfront facilities which are engaged in various types of marine repair work. These companies maintain shops and portable equipment for making above-waterline repairs and for the installation of equipment, gear, and machinery on all types of craft at berth.

In addition, there are several marine repair plants with waterfront facilities which are operated solely for repairing and maintaining company-owned floating equipment and for recreational craft; these plants have not been included in this report.

FLOATING EQUIPMENT

Twenty-four diesel-powered tugs and towboats with ratings up to 3,400 horsepower owned by four companies, G & H Towing, Bay-Houston Towing Co., Suderman & Young Towing Co., and Intracoastal Towing and Transportation Corp., and operated by G. & H. Towing Co., P.O. Box Drawer 2270, Galveston, TX 77550, perform towing, docking, undocking and shifting services for vessels in Houston Harbor. Fourteen tugs and towboats are based at Morgan Point Tug and Towboat Mooring (P.W.D. Ref. No. 259) and the remainder at Galveston, Corpus Christi, and Freeport, Texas. Two additional tugs and towboats were under construction, with delivery expected around September 1989.

Towing services of these companies are not confined to the limits of the above-mentioned ports but extend to other points along the Gulf of Mexico, the Gulf Intracoastal Waterway, and the Atlantic Coast.

Three companies, National Marine Service, Inc., Buffalo Marine Service, Inc., and Hollywood Marine, Inc., operate 15 tank barges with cargo-carrying capacities ranging up to 25,000 barrels for making deliveries of bunker fuel to vessels at berth.

The table on page 154 describes in detail the commercial tugs, towboats, and tank barges servicing the Port of Houston.

Information on the floating cranes and derricks based at the port is given under the section titled "Hoisting Equipment - Ashore and Afloat" on page 142.

Additional information on floating equipment can be obtained from "Waterborne Transportation Lines of the United States" published by the United States Army Corps of Engineers. This report describes the American flag vessels engaged in the carriage of freight and passengers, listing the net registered tonnage, length, width, draft, horsepower, carrying capacity, and other details of construction. It also describes the operations of each vessel operator, commodities carried, waterways used, and the localities served. Copies of this publication are for sale by the District Engineer, U.S. Army Engineer District, New Orleans, ATTN: CELMN-ED-S, P. O. Box 60267, New Orleans, LA 70160. Mail orders should include check or money order for $7.00 made payable to Finance and Accounting Office, USAED, New Orleans.

RAIL LINES

Two terminal and switching lines, the Houston Belt & Terminal Railway Co. and the Port Terminal Railroad Association serve the majority of the waterfront facilities at Houston and interchange with the six trunk line railroads serving the port: the Atchison, Topeka and Santa Fe Railway Co.; Fort Worth and Denver Railway Co. (Burlington Northern, Inc.); Missouri-Kansas-Texas Railroad Co.; Union Pacific Railroad Co.; and Southern Pacific Transportation Co.

MARINE REPAIR PLANTS AND DRYDOCKING EQUIPMENT

REF. NO. OF NEAREST PIER	20	26
OPERATOR AND ADDRESS	Channel Shipyard Co. P.O. Box 926 Highlands, TX 77562	Southwestern Barge & Fleet Service, Inc. 18350 Market Street Road Houston, TX 77530
LOCATION OF PLANT	Left bank of San Jacinto River, approximately 1,400 feet above mouth.	Channelview, right bank of San Jacinto River, below Market Street Bridge.
REPAIR SHOPS AND EQUIPMENT	Welding and general repair shop; air compressor; portable welding units and power tools; tank-cleaning and gas-freeing equipment; one 1,000-ton floating drydock; one pump barge and one work barge; and sandblasting and painting equipment. Small to medium capacity crawler crane available as required.	Shop buildings; portable welding units and power tools; air compressor; one 500-ton floating drydock; one 15- to 20-ton crawler crane; one 15- to 25-ton floating crane; tank-cleaning and gas-freeing equipment; sandblasting and painting equipment.
NATURE OF WORK UNDERTAKEN	Conversion and above- and below-waterline repairs to steel barges and small vessels; cleaning and gas-freeing tank barges; and sandblasting and painting.	Above- and below-waterline repairs to towboats and steel barges; repair and installation of propellers, shafts, and rudders; repairs to hatches and decks; cleaning and gas-freeing tank barges; and sandblasting and painting.
LARGEST SHAFTS PRODUCED	None.	None.
VESSEL CAPACITY AT PLANT	One in floating drydock and approximately 500 feet of berthing space at wharf.	One in floating drydock, and approximately 1,700 feet of berthing space.
FLOATING DRYDOCKS		
Type of construction	Steel.	Steel.
Dimensions (Feet)		
Length overall...........	80	180
Length on blocks.........	60	180
Width overall............	70	82
Clear width of vessel....	62	70
Maximum depth over blocks	10	6
Lifting capacity (long tons)	1,000	1,300
Utilities available	Water, A.C. 110/220 volts.	Water; compressed air; A.C., 100/220 volts.
Largest vessel handling (Feet)	-	-
Date built/rebuilt	-	-
REMARKS	One 95- and two 175-foot grounded steel barges with 20- by 8-foot and 100-foot approaches respectively, spaced 230 feet apart.	Floating drydock is moored along outer ends of 2 parallel timber walkways extending from shore; drydock has pool depth of 22 feet.

MARINE REPAIR PLANTS AND DRYDOCKING EQUIPMENT (Cont.)

REF. NO. OF NEAREST PIER	29
OPERATOR AND ADDRESS	Glendale Boat Works, Inc. 18300 Market Street Road Channelview, TX 77530
LOCATION OF PLANT	Left bank of Old River, below Interstate Highway 10 Bridge crossing the San Jacinto River.
REPAIR SHOPS AND EQUIPMENT	Fabrication and welding shop and small to medium capacity crawler crane and hydraulic cranes, and 600-ton floating drydock.
NATURE OF WORK UNDERTAKEN	Repairs to barges, dredges, tugs, towboats, and service craft.
LARGEST SHAFTS PRODUCED	None.
VESSEL CAPACITY AT PLANT	One in drydock, others at bank.
FLOATING DRYDOCK	
Type of construction	Steel.
Dimensions (Feet):	
Length overall...........	90
Length on blocks.........	60
Width overall............	50
Clear width for vessel...	42
Maximum depth over blocks	2
Lifting capacity (L. tons)	600
Utilities available	Water, compressed air, steam, and A.C., 110/220/440 volts.
Largest vessel handled	100
REMARKS	-

MARINE REPAIR PLANTS AND DRYDOCKING EQUIPMENT (Cont.)

NEAREST P.W.D. REF. NO.	81-82
OPERATOR AND ADDRESS	Platzer Shipyard, Inc. Industrial Road, P.O. Box 9788 Houston, TX 77015
REPAIR SHOPS AND EQUIPMENT	Machine, steel fabrication and plate, and joiner shops; mold loft; welding equipment; air compressor; one 1,000-ton marine railway; one 150-ton crawler and two mobile cranes; and two winch trucks.
NATURE OF WORK UNDERTAKEN	Construction and above- and below- waterline repairs to towboats and barges; repairs to engines by subcontract; remove and replace propellers and shafts; cleaning and gas-freeing tank barges; and sandblasting and painting.
LARGEST SHAFTS PRODUCED	20 feet by 12 1/2 inches.
VESSEL CAPACITY AT PLANT	One on marine railway, and 1,500 feet of berthing space.
MARINE RAILWAY	
Type	Crandall.
Dimensions (Feet):	
Length of cradle.........	250, maximum (see Remarks).
Length on blocks.........	250
Clear width of cradle at top of keel blocks.....	50
Depth over keel blocks at MLW	
Forward............	4
Aft.................	12
Hauling power (tons)	1,000
Utilities available	Water, compressed air, steam, and A.C., 220/440 volts.
Largest vessel handled	300- by 75-foot barge.
Date built and/or rebuilt	1945/1975
REMARKS	Cradle at marine railway consists of several sections.

MARINE REPAIR PLANTS AND DRYDOCKING EQUIPMENT (Cont.)

REF. NO. OF NEAREST PIER	171			172
OPERATOR AND ADDRESS	Bludworth Bond Shipyard, Inc. 8114 Hockley Street, P.O. Box 5065 Houston, TX 77262			Houston Ship Repair, Inc. a division of Diversified Group, Inc. 7633 Navigation Blvd./P.O. Box 5147 Houston, TX 77012
LOCATION OF PLANT	Right side of entrance to Brays Bayou.			Brady Island, right side of Houston Ship Channel, 600 feet below upper junction with Harrisburg Road.
REPAIR SHOPS AND EQUIPMENT	Carpenter, welding, and pipe shops; portable gas, and flux-core welding machines; one 1,700-, one 1,200-, and one 1,100-ton floating drydocks; one 22-, and one 15-ton electric tower cranes; one 50-ton, diesel crawler crane; and one 15-ton diesel mobile crane.			Machine and welding shops; portable welding units; air compressors; one 10-ton stationary tower crane; and diesel forklift trucks.
NATURE OF WORK UNDERTAKEN	Above- and below-waterline repairs to barges, tugs and towboats, and other small vessels; repair and installation of marine engines; cleaning, scraping, and painting and construction of barges and small vessels up to 225 by 40 feet.			Above-waterline repairs of any nature to vessels and barges.
LARGEST SHAFTS PRODUCED	None.			None.
VESSEL CAPACITY AT PLANT	Up to 10 barges or vessels.			One at wharf.
FLOATING DRYDOCKS				
Type of construction	Steel, one section (each).			-
Dimensions (Feet):	No. 1	No. 2.	No. 3	
Length overall...........	120	144	108	-
Length on blocks.........	120	144	108	-
Width overall............	70	96	70	-
Clear width for vessel...	58	84	58	-
Maximum depth over blocks	15	21	18	-
Lifting capacity (L. Tons)	1,200	1,700	1,100	-
Utilities available	Water, compressed air, acetylene gas, oxygen, and A.C., 110/240/480 volts.			-
Largest vessel handled (Feet)	225 by 40	180 by 30	170 by 30	-
Date built/rebuilt	1979/-	1977/-	1979/-	-
REMARKS	-			-

MARINE REPAIR PLANTS AND DRYDOCKING EQUIPMENT (Cont.)

REF. NO. OF NEAREST PIER	173-177
OPERATOR AND ADDRESS	Newpark Shipbuilding & Repair, Inc. 8502 Cypress Street/P.O. Box 5426 Houston, TX 77262
LOCATION OF PLANT	Brady Island.
REPAIR SHOPS AND EQUIPMENT	Carpenter, fabrication, and electrical shops; portable welding units and powered tools; air compressor; sandblasting and painting equipment; one 1,200-ton hydraulic brake press; one 1,600- and one 1,200-ton marine railways; one 1,500- and one 1,200-ton floating drydocks; one 6-ton traveling gantry crane straddling tug and barge area; one 22- and one 6-ton traveling electric tower cranes; one 75- and one 15-ton diesel crawler cranes; gas freeing equipment; and rental mobile hoists as required.
NATURE OF WORK UNDERTAKEN	Above- and below-waterline repairs to small vessels and steel barges; sandblasting and painting; cleaning and gas-freeing tank barges; and construction of barges and small vessels up to 400 by 74 feet, or 3,500 tons.
LARGEST SHAFTS PRODUCED	By subcontract.
VESSEL CAPACITY AT PLANT	20 TO 25
REMARKS	Drydock No. 3 pivots 90° for use in drydock to rail tranfer system. Drydocks can be used in tandem for lifts of up to 3,300 long tons.

FLOATING DRYDOCKS

Type of construction	Steel.		
Dimensions (Feet):	No. 1	No. 2	No. 3
Length overall.........	150	130	220
Length on blocks.......	150	100	160
Width overall..........	100	100	104
Clear width for vessel.	76	76	88
Max. depth over blocks.	15	18	20
Lifting capacity (L.tons)	1,300	1,000	3,000
Utilities available	Water, compressed air, acetylene gas, oxygen, welding connections, A.C., 110/220/440 volts.		
Largest vessel handled	300x70	225x70	320x85
Date built/rebuilt	1972/-	1976/-	1982/-

MARINE RAILWAYS

Type	Crandall	
Dimensions (Feet):	3 sections	4 sections
Length of cradle.......	200	200
Length on blocks.......	200	200
Clear width of cradle at top of keel blocks	75	54
Depth over keel blocks		
Forward...........	4	4
Aft...............	18	13
Hauling power (tons)	1,200	1,000
Utilities available	Water, compressed air, acetylene gas, oxygen, and A.C., 110/220/440 volts.	
Largest vessel handled	300 x 75	240 x 54
Date built/rebuilt	1956/1965	1956/-

FLOATING EQUIPMENT

(a) (b)	OPERATOR AND ADDRESS BASE FROM WHICH OPERATED	NAME OR NUMBER	DIMENSIONS OVERALL LENGTH (FEET)	DIMENSIONS OVERALL WIDTH (FEET)	DRAFT UNDER LOAD (FEET)	HORSE-POWER	REMARKS
				TUGS			
(a)	G. & H. Towing Co.	Barbara George	105.0	27.1	13.0	1,700	Towing, docking, and undocking vessels in Houston, Galveston, Corpus Christi, and Freeport, Texas, and other points along the Gulf of Mexico, Gulf Intracoastal Waterway, and Atlantic Coast.
	P.O. Drawer 2270	Barbara H. Neuhaus	95.0	30.0	16.0	3,000	
	Galveston, TX 77553	C. R. Haden	87.5	32.1	16.5	3,200	
(b)	P.W.D. Ref. No. 259	Denia	95.0	30.0	16.0	3,000	
		Eva	95.0	30.0	16.0	3,000	
		Frances E. Haden	82.3	26.8	13.8	1,700	
		Gretchen	82.3	26.8	13.8	1,700	
		J. Harris Masterson	103.0	25.2	13.0	2,400	
		Juno	96.0	32.1	16.5	3,200	
		Laura Haden	95.0	30.0	16.0	3,000	
		Ling	100.1	27.1	13.0	1,700	
		Manta	109.8	31.0	18.0	3,400	
		Mark K.	95.0	30.0	16.0	2,400	
		Marlin	96.0	25.2	13.0	2,400	
		Mars	90.0	27.0	13.8	1,700	
		Philip K.	87.5	32.1	16.5	3,200	
		Sea King	105.0	27.0	13.0	2,400	
		Sturgeon	105.0	27.1	13.0	2,150	
		The Judge	96.0	32.1	16.5	3,200	
		Titan	95.0	30.0	16.0	3,000	
		Trojan	86.5	24.0	10.5	1,000	
		W. D. Haden II	95.0	32.0	16.0	3,000	
		W. D. Masterson	90.0	26.8	13.8	1,700	
		Zeus	103.0	25.0	13.0	2,400	
				TOWED TANK BARGES		CARGO CAPACITY (BBLS)	DELIVERY RATE (BBLS/HR)
(a)	National Marine Service, Inc.	NMS No. 1601	182.0	50.0	9.6	10,400	2,000
	P.O. Box 1015						
	Channelview, TX 77530						
(b)	P.W.D. Ref. No. 37						
(a)	Buffalo Marine Service, Inc.	Buffalo 84	165	36.0	9.6	8,500	1,500
		Buffalo 101	195	35.0	10.0	10,000	1,000
	P.O. Box 5006	Buffalo 102	195	35.0	10.0	10,000	1,000
	Houston, TX 77012	Buffalo 285	295	54.0	10.0	25,000	3,000
(b)	P.W.D. Ref. No. 179	Buffalo 286	295	54.0	10.0	25,000	3,000
		Buffalo 292	295	54.0	10.0	25,000	3,000
		Buffalo 293	295	54.0	10.0	25,000	3,000
		Caribe 52	134	33.0	9.0	5,500	1,000
		DC 50	195	35.0	10.0	9,000	1,000
		DC 90	195	35.0	10.0	10,000	1,000
(a)	Hollywood Marine, Inc.	Hollywood 1007	195	35.0	10.6	9,570	2,500
	55 Waugh Drive	Hollywood 1512	183	50.0	11.7	15,000	2,700
	Houston, TXL 77251	Hollywood 1513	190	50.0	12.0	15,000	2,700
(b)	P.W.D. No. 182	Hollywood 1514	183	50.0	11.7	15,000	2,700

INDEX OF PIERS, WHARVES, AND DOCKS

NAME OF OPERATOR AND FACILITY	P.W.D. REF. NO.	MAP NO.	PAGE NO.
Amerada Hess Corp.			
Barge Dock No. 1	100	3	65
Barge Dock No. 2	98	3	64
Barge Dock No. 3	97	3	64
**Barge Dock No. 4	96	3	63
**Drum Dock	99	3	64
Ship Dock No. 1	102	3	65
Ship Dock No. 2	101	3	65
Anahuac Towing & Shell Co. Dock	22	2	39
Arco-Lyondell Petro Chemical Co.			
Barge Dock No. 1	23	2	39
Arrow Cement Co. Cedar Bayou Wharf	7	1	34
Arrow Terminals			
*Galena Park Dock	120	3	71
Arrow Trucking Co.			
**Bulkhead	46	2	47
Ashland-Warren, Inc.			
**Drennan Street Wharf	154	3	83
BTL Specialty Resins Corp.			
Barge Dock	78	3	57
Bacon Towing Co, Inc. Landing	193	3	96
Barbours Cut Marine Contractors, Inc.			
Port of Houston, Barbours Cut Roll-on/Roll-off Wharf	256	1	117
Baytank (Houston), Inc.			
Bayport Barge Slip No. 1	266	1	120
Bayport Barge Slip No. 2	267	1	120
Bayport Ship Terminal			
Wharf No. 1	264	1	119
Wharf No. 2	265	1	120
Bludworth Bond Shipyard, Inc.			
Repair Dock	171	3	88
Bludworth, John, Marine, Inc.			
West Dock	210	3	101
Boles, Jim, Chevron U.S.A., Oak Point Terminal, Cedar Bayou	1	1	32
Brown & Root, Inc.			
Buffalo Bayou Wharf	150	3	81
Brown & Root Marine Operators, Inc., subsidary of Brown & Root, Inc.			
Lower Wharf	87	3	60
Slip A and Wharf	86	3	60
Slip B and Wharf	85	3	60
Slip and Upper Barge Wharf	83	3	59
Yard C Wharf	84	3	59
Yard E Wharf	92	3	62
Brown Foundation			
**Oil Pier	91	3	62
**Pier No. 1	89	3	61
**Pier No. 2	90	3	61
Buffalo Marine Service, Inc.			
Upper Mooring	178	3	91
Lower Mooring	179	3	91
Byer's Barge Terminal, Division of Houston Compressed Steel Corp.			
Wharf	80	3	58
Care Shipping Terminal, Inc.			
Ship Dock	61	2	52
Cargill, Inc.			
Houston Grain Elevator Dock	64	2	53
*Port of Houston, Manchester Wharf No. 3	186	3	93
Cargill, Inc., Commodity Marketing Division			
*Cargo Carriers, Houston Grain Elevator Dock	65	2	53
Cargo Carriers, Inc.			
*Houston Grain Elevator Dock	65	2	53
Celanese Chemical Co., Inc.			
Bayport Terminal Barge Slip	262	1	119
Bayport Terminal Ship Dock	263	1	119
Channel Shipyard Co., Inc. Wharves	20	2	38
Coflexip & Services, Inc.			
**Wharf	51	2	48
Continental Dredging, Inc. Slip	33	2	42

NAME OF OPERATOR AND FACILITY	P.W.D. REF. NO.	MAP NO.	PAGE NO.
Crown Central Petroleum Corp.			
Barge Slip	204	3	99
Coke Wharf	206	3	100
Oil Dock	205	3	100
Delta Engineering Corp. Dock	48	2	47
Dravo Basic Materials Co., Inc.			
*Arrow Terminals, Galena Park Dock	120	3	71
Wharf	121	3	72
Du Pont, E. I., de Nemours & Co.			
LaPorte Plant			
Lower Barge Dock	249	1	114
Upper Barge Dock	248	2	114
Dundee Cement Co.			
**Houston Terminal Dock	63	2	52
El Campo Rice Milling Co., Inc.			
*Port of Houston, Manchester Wharf No. 2	185	3	93
Ethyl Corp.			
Barge Dock	219	3	104
Wharf	218	3	104
Exxon Co., U.S.A.			
Baytown Refinery			
Pier No. 1	8	1	34
Pier No. 2	10	1	35
Pier No. 4	13	1	36
Pier No. 5	11	1	35
Pier No. 6	14	1	36
Pier No. 7	15	1	36
Pier No. 8	12	1	35
Tug Boat Dock	16	1	37
*Wharf	145	3	80
Fuller Co.			
**Barge Slip	62	2	52
G & H Towing Co. Port of Houston, Morgans Point Tug and Towboat Mooring	259	1	118
GATX Terminals Corp.			
Galena Park Terminal			
Barge Dock No. 1	112	3	69
Barge Dock No. 2	113	3	69
Barge Dock No. 3	109	3	68
Ship Dock No. 1	111	3	68
Ship Dock No. 2	114	3	69
Ship Dock No. 3	110	3	68
Pasadena Terminal			
Barge Dock No. 1	208	3	101
Barge Dock No. 2	207	3	100
Ship Dock	209	3	101
General Stevedores, Inc.			
Houston Barge Terminal Wharf	157	3	84
Barge-Side Warehouse Wharf	158	3	84
Georgia-Gulf Corp. Ship Dock	220	3	105
Glendale Boat Works Inc. Wharf	29	2	41
Greens Bayou Fleeting			
Wharf and Fleet Mooring	74	3	56
Greens Bayou Terminal Co., division of Brown & Root, Inc.			
Yard D Wharf	93	3	62
Gulf Coast Portland Cement Co., Division of McDonough Corp. Dock	159	3	84
Gulf States Asphalts			
Dock	160	3	85
Haltermann, J., Ltd.			
**Dock	52	2	49
Harris County Commissiners Court.			
Lynchburg Ferry			
Slip	19	2	38
Wharf	18	2	37
San Jacinto State Park			
Ferry Slip	244	2	113
Passenger Landing	243	2	112
Hill Petroleum Co.			
Barge Dock No. 4	189	3	94
*Port of Houston, Manchester Wharf No. 3	186	3	93
Traweek Dock	190	3	95

INDEX OF PIERS, WHARVES, AND DOCKS (Cont.)

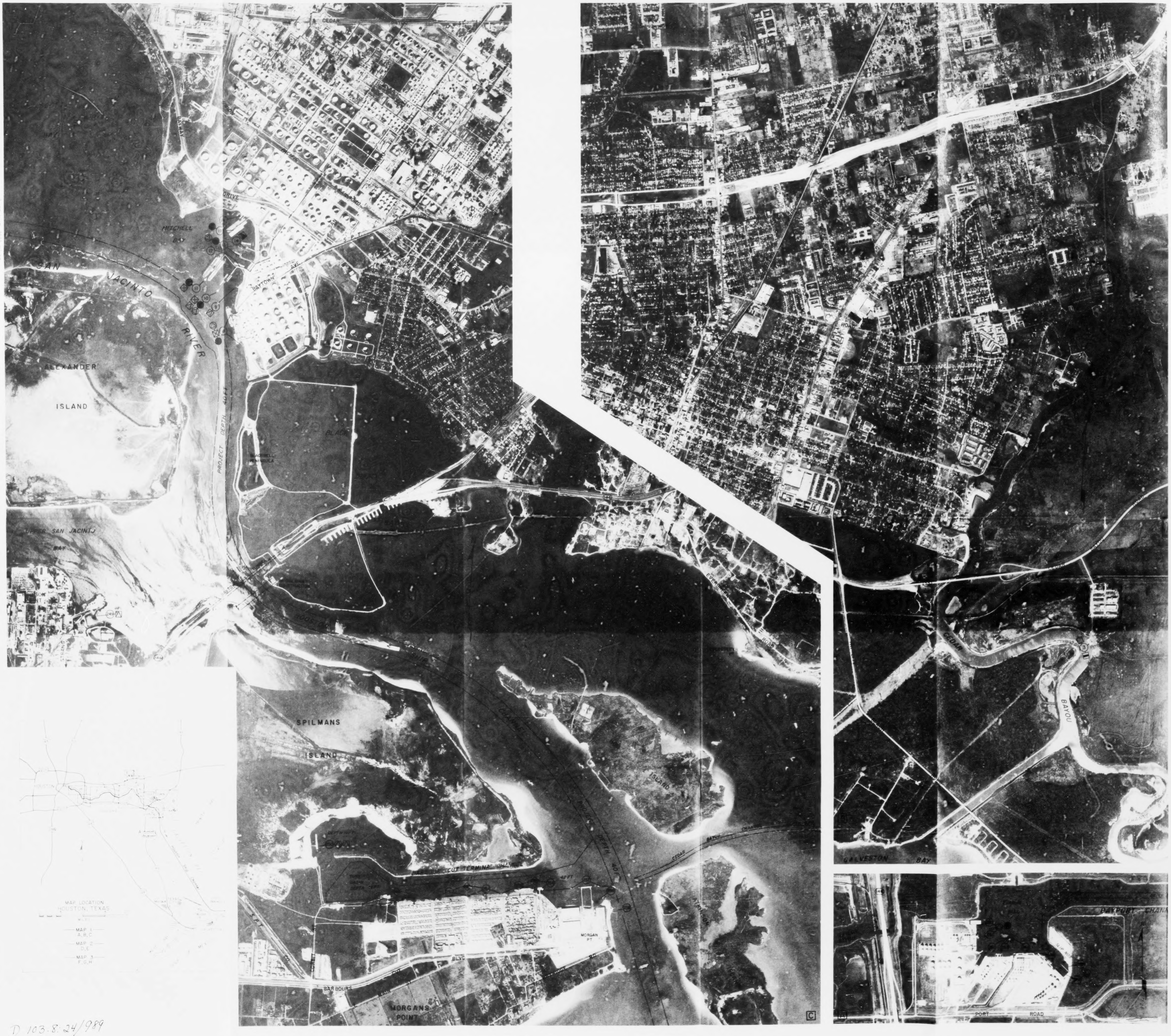
NAME OF OPERATOR AND FACILITY	P.W.D. REF. NO.	MAP NO.	PAGE NO.
Hollywood Fleeting Service, Inc.			
Tug Boat Dock and Slip	42	2	45
Houston, City of, Public Works Wastewater Division			
69th Street Barge Dock	149	3	81
Houston Fuel Oil Terminal Co.			
Barge Dock No. 1	58	2	51
Barge Dock No. 2	57	2	50
Barge Dock No. 3	56	2	50
Barge Dock No. 4	54	2	49
Ship Dock No. 1	55	2	50
Houston Lighting & Power Co.			
San Bertron Plant Wharf	245	2	113
Houston Marine Services, Inc. Dock	17	2	37
Houston Shell and Concrete Co.			
Baytown Ready Mix, Cedar Bayou Wharf	6	1	33
*Landing	192	3	95
Houston Ship Repair, Inc.			
Brady Island Wharf	172	3	89
Houston Tank Storage Co.			
*Port of Houston, Public Wharf No. 2	163	3	86
Houston Transmodal Owning Co.			
Port of Houston, Automated Bagged Goods Handling Facility Dock	59	2	51
Hughes, Joe D., Inc. Greens Bayou Terminal, Yard B Wharf	88	3	61
Ideal Basic Industries, Inc., Cement Division, Clinton Wharf	122	3	72
Inhesa America, Inc. Ship Dock	60	2	51
Inter-Bay Towing Co., Inc. Mooring	30	2	41
Intercontinental Terminals, Inc.			
Barge Dock No. 4	234	2	109
Ship Dock Nos. 1, 2, and 3	235	2	110
International Terminal Corp.			
Berth No. 1	116	3	70
Berth Nos. 2 and 3	117	3	70
Grain Wharf	118	3	71
International Tool and Supply Co.			
**Mooring	40	2	45
James, T. L., Inc.			
Carpenters Bayou Mooring	39	2	44
Kerley AG Products, Inc. Wharf	215	3	103
Koch Refining Co., Inc.			
Channelview Terminal Dock	38	2	44
LaPorte Corp.			
**Mooring	43	2	46
Lafarge Corp.			
**Barge Wharves	153	3	82
Lemm Corp., The			
*Quantum Corp. Barge Dock	246	2	113
Lesco Trucking Co., Inc. Dock	24	2	39
Lone Star Industries, Inc.			
**Barge Dock	182	3	92
Houston Cement Plant Dock	181	3	92
**Wharf	183	3	92
Lone Star-Falcon Cement Co., Inc. Wharf	36	2	43
Lopez-Gloria Construction Service, Inc., Cedar Bayou Mooring	5	1	33
Lyondell Petrochemical Co.			
Houston Refinery			
Dock "A"	197	3	97
Dock "B"	198	3	97
Dock "C"	199	3	98
Dock "D"	200	3	98
Manchester Terminal Corp. Wharf	191	3	95
McDonough Marine Service			
*Houston Shell and Concrete Co. Landing	192	3	95
Channelview Landing	31	2	42
McGinnes Industrial Maintenance Corp., Gulf Coast Waste Disposal			
Lower Dock	202	3	99
Upper Dock	201	3	98
Merichem Co., The, Dock	76	3	57
Mobay Corp.			
Baytown Plant Barge Dock	4	1	33
Mobil Mining and Minerals Co.			
Liquid Ammonia Barge Dock	211	3	102
Barge and Ship Loader Dock	212	3	102
East Dock	213	3	102
Sulphur Dock	214	3	103
Modular Design Research, Inc.			
**Slip	44	2	46
Mosher Steel Co. Barge Slip	53	2	49
Musgrove Towing Service Dock	28	2	41
National Marine Service, Inc.			
Mooring	37	2	44
New Terminal Warehouse Corp			
Berths Nos. 1 and 2	169	3	88
Newpark Shipbuilding & Repair, Inc., subsidiary of Newpark Resources, Inc.			
East Wharf and South Dock	175	3	90
**Gas Freeing Plant Dock	177	3	90
North Building Ways Slip	173	3	89
Ship Channel Dock	174	3	89
South Building Ways Fitting Out Dock	176	3	90
Port of Houston,			
**Tug and Towboat Wharf	166	3	87
Occidental Chemical Corp.			
Deer Park Plant			
Caustic Dock	230	2	108
Solvents Dock	231	2	108
Chlorine Dock	232	2	109
*Tenneco Pasadena Wharf	221	3	105
Oiltanking, Inc.			
Barge Docks A and B	69	3	54
Ship Dock			
Berth No. 1	68	3	54
Berths Nos. 2 and 3	67	3	54
*Barge Dock C	70	3	55
Old River Fleeting & Repair, Inc.			
Mooring	35	2	43
OME Corp., Houston International Terminal Wharf	25	2	40
Oxid, Inc.			
*Port of Houston, Manchester Wharf No. 1	184	3	93
Pace Marine Service, Mooring	32	2	42
Pacific Molasses Co. Dock	167	3	87
*Public Wharf No. 1 - East	165	3	86
*Port of Houston, Public Wharf No. 1 - West	164	3	86
Paktank Corp.			
Galena Park Terminal Dock	115	3	70
Deer Park Terminal			
Barge Dock No. 4	237	2	110
Barge Docks Nos. 5 and 6	240	2	111
Barge Docks Nos. 7 and 8	241	2	112
Ship Dock No. 1	238	2	111
Ship Dock No. 2	239	2	111
Ship Dock No. 3, Barge Dock Nos. 9 and 10	242	2	112
Parker Bros. & Co., Inc.			
Turkey Bend Dock	155	3	83
Engle Street Dock	156	3	83
**Repair Shop Wharf	152	3	82
Pasadena Towing Service, Inc.			
Mooring	34	2	43
Patterson Truck Line, Inc.			
Wharf and Slip	47	2	47
PetroUnited Terminals, Inc.			
Bayport Terminal			
Barge Dock	260	1	118
Ship Dock	261	1	118
Phillips Petroleum Co.			
Adams Terminal			
*Berths Nos. 4, 5, 6, and 7	217	3	104
*Berths Nos. 8 and 9	216	3	103

INDEX OF PIERS, WHARVES, AND DOCKS (Cont.)

NAME OF OPERATOR AND FACILITY	P.W.D. REF. NO.	MAP NO.	PAGE NO.
Platzer Shipyard Inc.			
Mooring	75	3	56
Lower Wharf and Slip	82	3	59
Upper Wharf and Slip	81	3	58
Port of Houston Authority			
Barbours Cut Terminal			
Berth No. 1	255	1	116
Berth No. 2	254	1	116
**Berths Nos. 5 and 6	251	1	115
LASH Vessel Mooring Wharf	257	1	117
Fireboat Dock	258	1	117
**Dickson Industrial District Wharf	127	3	74
Bulk Plant No. 2 Wharf	71	3	55
Bulk Materials Handling Wharf	72	3	55
*Exxon Chemical Co. Wharf	145	3	80
Greens Bayou Fireboat Dock	73	3	56
Harbor Inspection Boat Wharf	148	3	81
*Public Wharf No. 1 - East	165	3	86
*Public Wharf No. 1 - West	164	3	86
*Public Wharf No. 2	163	3	86
Public Wharf No. 3	162	3	85
Public Wharf No. 4	161	3	85
Public Wharf No. 8	147	3	80
Public Wharf No. 9	146	3	80
Public Wharf No. 10	144	3	79
Public Wharf No. 11	143	3	79
Public Wharves Nos. 12 and 13	142	3	79
Public Wharf No. 14	141	3	78
Public Wharf No. 15	140	3	78
Public Wharf No. 16	139	3	78
Public Wharf No. 17	138	3	77
Public Wharves Nos. 18 and 19	137	3	77
Public Wharf No. 20	136	3	77
Public Wharves Nos. 21 and 22	135	3	76
Public Wharf No. 23	134	3	76
Public Wharves Nos. 24 and 25	133	3	76
Public Wharf No. 26	132	3	75
Public Wharves Nos. 27 and 28	131	3	75
Public Wharf No. 29	130	3	75
Public Wharves Nos. 30 and 31	129	3	74
Public Wharf No. 32	128	3	74
Public Wharves Nos. 41 - 48	168	3	87
Manchester			
Fireboat Dock	187	3	94
Mooring	188	3	94
*Wharf No. 1	184	3	93
*Wharf No. 2	185	3	93
*Wharf No. 3	186	3	93
**Small Boat Moorings	126	3	73
Porta-Kamp Manufacturing Co.			
**Dock	49	2	48
Powell Industries, Inc.			
Offshore Division Wharf	50	2	48
Quantum Chemical Corp.			
*Barge Dock	246	2	246
Rohm and Haas Co.			
Houston Plant Barge Wharf	233	2	109
S.M.S. Division of Highport Industries, Inc., Dock	21	2	38
Sealand Service, Inc., Port of Houston, Barbours Cut Terminal			
Berth No. 3	253	1	116
Berth No. 4	252	1	115
Sedco Forex, division of Schlumberger Technology			
**Slip	45	2	46
Shell Chemical Co.			
*Shell Oil Co., Dock No. 2	226	3	107
*Shell Oil Co., Dock No. 3	225	3	106
*Shell Oil Co., East Dock	227	3	107
*Shell Oil Co., West Dock	224	3	106
Shell Oil Co.			
Barge Mooring	222	3	105
*Contractor's Wharf	229	2	108
Shell Oil Co. (Cont.)			
Crude Oil Dock	228	3	107
*Dock No. 2	226	3	107
*Dock No. 3	225	3	106
*East Dock	227	3	107
Fueling Dock	223	3	104
*West Dock	224	3	106
Simpson Pasadena Paper Co. Wharf	203	3	99
Solar Turbine, division of Caterpillar Tractor Co.			
**Slip	41	2	45
South Coast Terminal			
*Port of Houston, Manchester Wharf No. 3	186	3	93
Southern Pacific Transportation Co.			
Clinton Wharf	123	3	72
Diesel Fuel Dock	151	3	82
Southern Stevedoring Co., Inc.			
*Port of Houston, Public Wharf No. 1 - West	164	3	86
Southwestern Barge Fleet Service, Inc. Dock	26	2	40
Stauffer Chemical Co., Division of Rhone Poulenc Inc.			
Baytown Plant Wharf	9	1	34
**Dock	77	3	55
Manchester Dock	180	3	91
Stern, Jacob, & Sons, Inc.(Texas)			
*Port of Houston, Public Wharf No. 1 - West	164	3	86
Stolt-Nielsen, Inc.			
*Oiltanking Barge Dock C	70	3	55
TXTX Marine, Inc.			
Barge Dock	95	3	63
Dock	194	3	96
Lower Wharf	94	3	63
Tenneco Oil Co.			
Fractionating Plant Wharf	250	1	115
Pasadena Wharf	221	3	105
Texas Petrochemicals, Inc.			
Dock A	196	3	97
Dock B	195	3	96
Triple "B" Terminals, Inc. Dock	170	3	88
USX Corp. Texas Works			
Cedar Bayou Barge Dock	2	1	72
**Houston Barge Slip	124	3	73
Union Equity Co-operative Exchange Grain Pier	236	2	110
United States Government			
U.S. Coast Guard			
Houston Ship Channel Wharf	125	3	73
United States Gypsum Co.			
Houston Plant Wharf	119	3	71
Walton & Son Stevedoring and Contracting Co.			
Barge Terminal, Wharf and Barge Slip	79	3	58
Warren Petroleum Co., division of Chevron U.S.A., Inc.			
Dock No. 1	103	3	66
Dock No. 2-A	105	3	
Fueling Dock	106	3	
Barge Dock No. 3	107	3	
Barge Dock No. 5	108	3	
Dock No. 2	104	3	66
Warrior & Gulf Navigation Co.			
Cedar Bayou Dock	3	1	32
West India Shipping Co., Inc.			
**Wisco Terminal Wharf	66	2	53
Westway Trading Corp. Houston			
*Port of Houston, Manchester Wharf No. 3	186	3	93
Western Towing Co.			
Barge Mooring	27	2	40

* Various operators.

** Not operated or used.


CEDAR
BAYWAY
DRIVE
MITCHELL BAY
SAN JACINTO RIVER
ALEXANDER ISLAND
BAYTOWN
BLACK
PROJECT DEPTH 40FT
UPPER SAN JACINTO BAY
SPILMANS ISLAND
ISLAND
CEDAR BAYOU CHANNEL
MORGAN PT
BLVD
BARBOURS
MORGANS POINT
C
BAYOU
GALVESTON BAY
BAYPORT CHANNEL
PORT ROAD
MAP LOCATION
HOUSTON, TEXAS
MILES
HOUSTON
Houston Ship Channel
MAP 1 A,B,C
MAP 2 D,E
MAP 3 F,G,H

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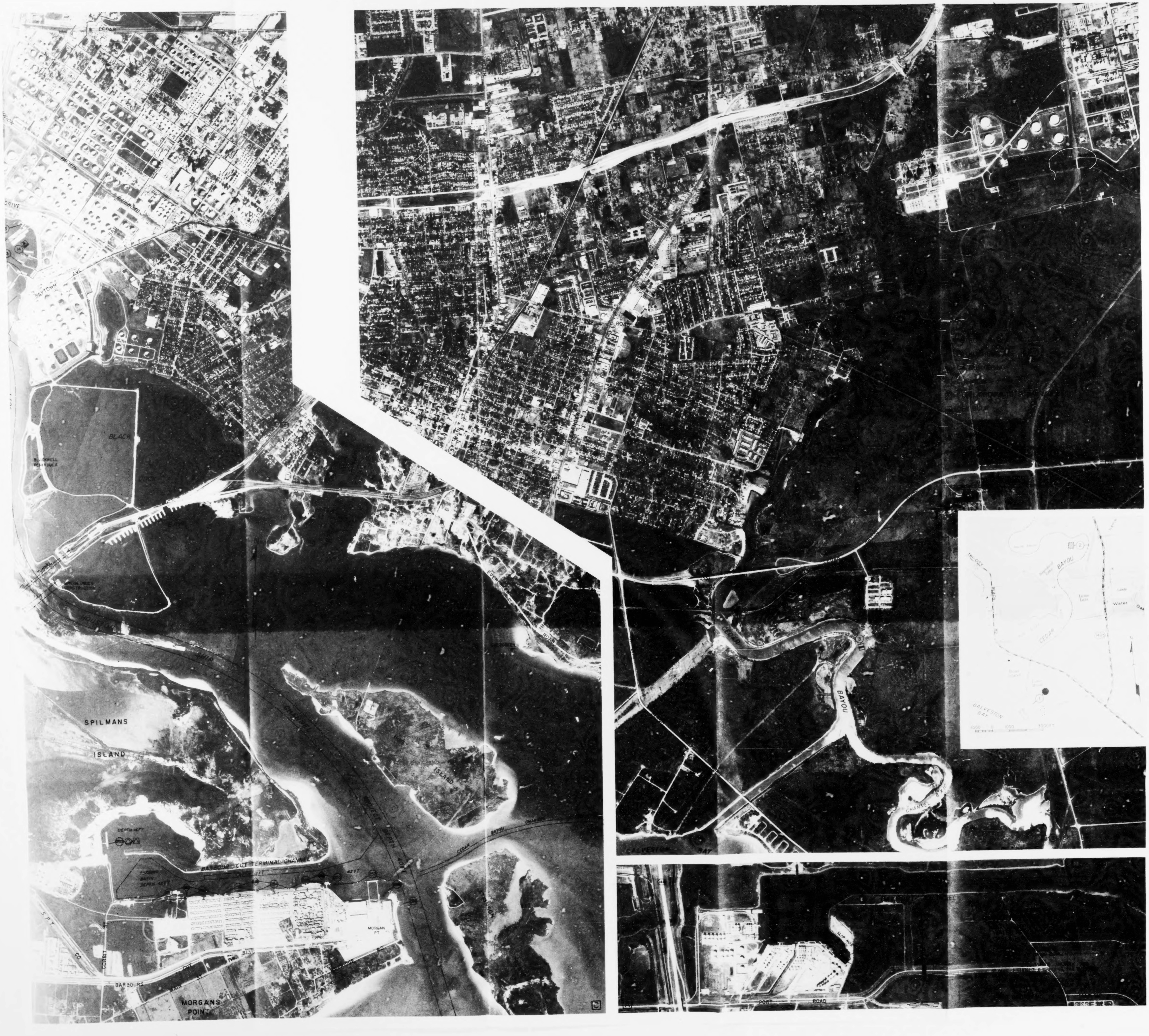
CEDAR
UNION
PACIFIC
RAILROAD
DRIVE
S.P.T.
BAYTOWN
AVE
BLACK
DUCK
BLACKWELL PENINSULA
TUNNEL
BRIDGE UNDER CONSTRUCTION
HOUSTON
SHIP
CHANNEL
SPILMANS
ISLAND
DEPTH 16FT
BARBOUR CUT TERMINAL CHANNEL
TURNING BASIN DEPTH 42FT
42 FT
PROJECT DEPTH 40FT
ISLAND
CEDAR
BAYOU
CHANNEL
MORGAN PT
S.P.T.
CO.
CORBIT ST
BLVD
CUT
MAIN ST
BARBOURS
MORGANS POINT
ROAD
ROAD
BAYOU
CHANNEL
GALVESTON BAY
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TRI-CITY
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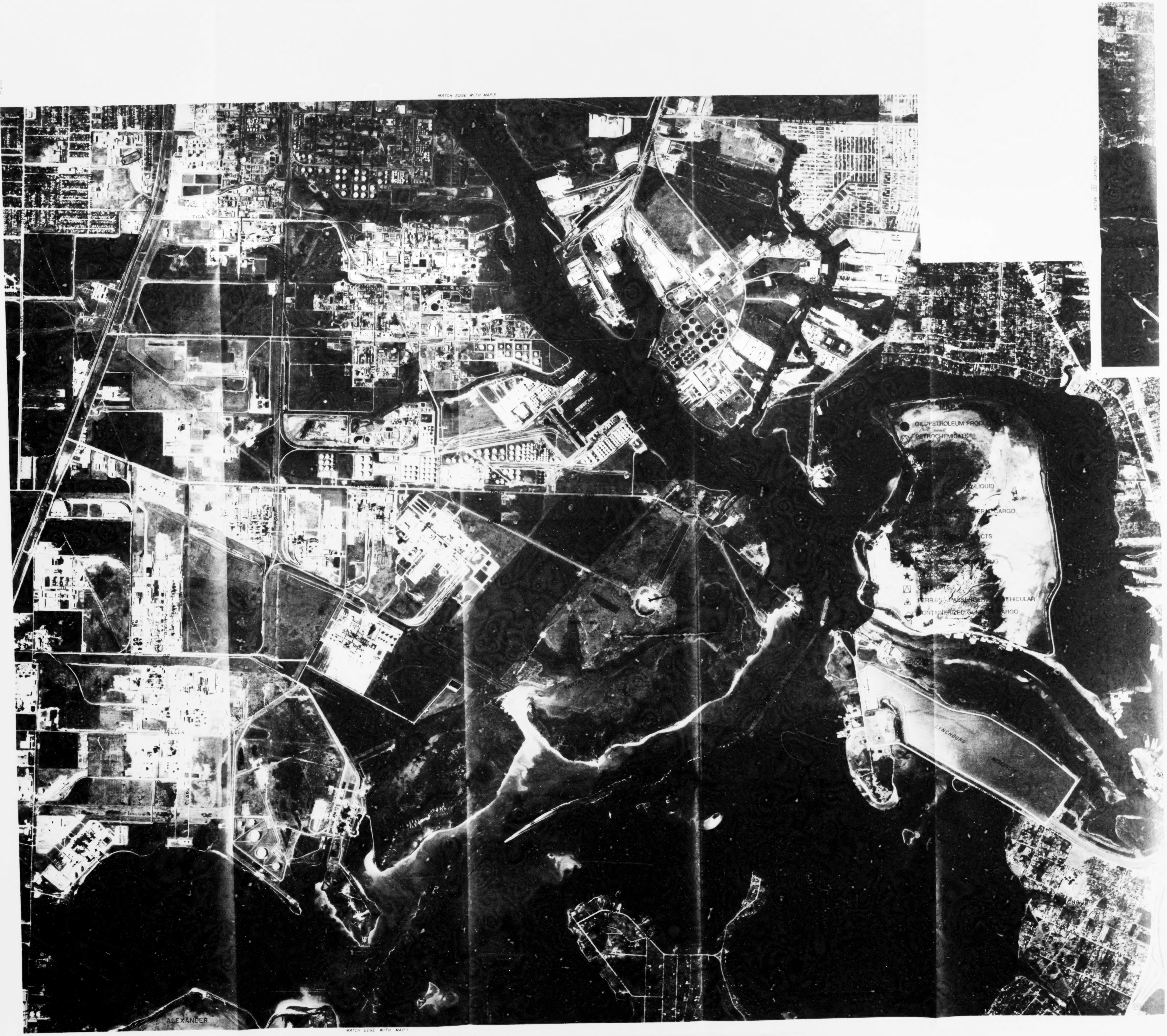
MATCH EDGE WITH MAP 3
TIDAL
TERMINAL
MAP
● OIL/PETROLEUM PRODU
PETROCHEMICALS
LIQUID
ERAL CARGO
CTS
ING
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CHEMICALS
FERRIES - PASSENGER VEHICULAR
CONTAINERIZED GENERAL CARGO
LYNCHBURG
ALEXANDER
MATCH EDGE WITH MAP 1

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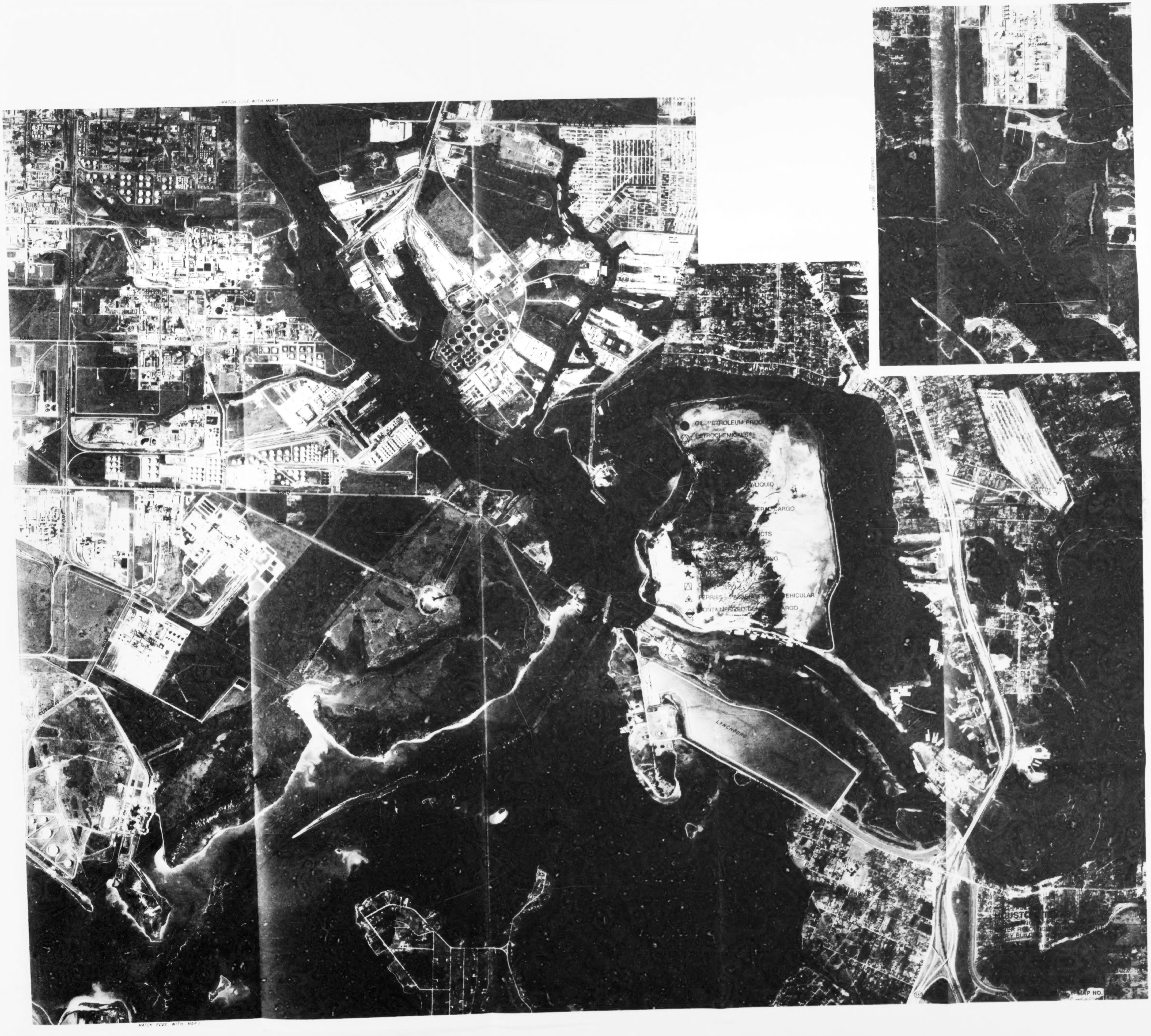
MATCH EDGE WITH MAP 3
OIL-PETROLEUM PROD
PETROCHEMICALS
LIQUID
ERAL CARGO
CTS
ING
FERRIES - PASSENGER VEHICULAR
CONTAINERIZED GENERAL CARGO
TERMINAL
LYNCHBURG
HOUSTO
WATER RESOURCES
SURVEY BUILDING
MAP NO.
MATCH EDGE WITH MAP 1

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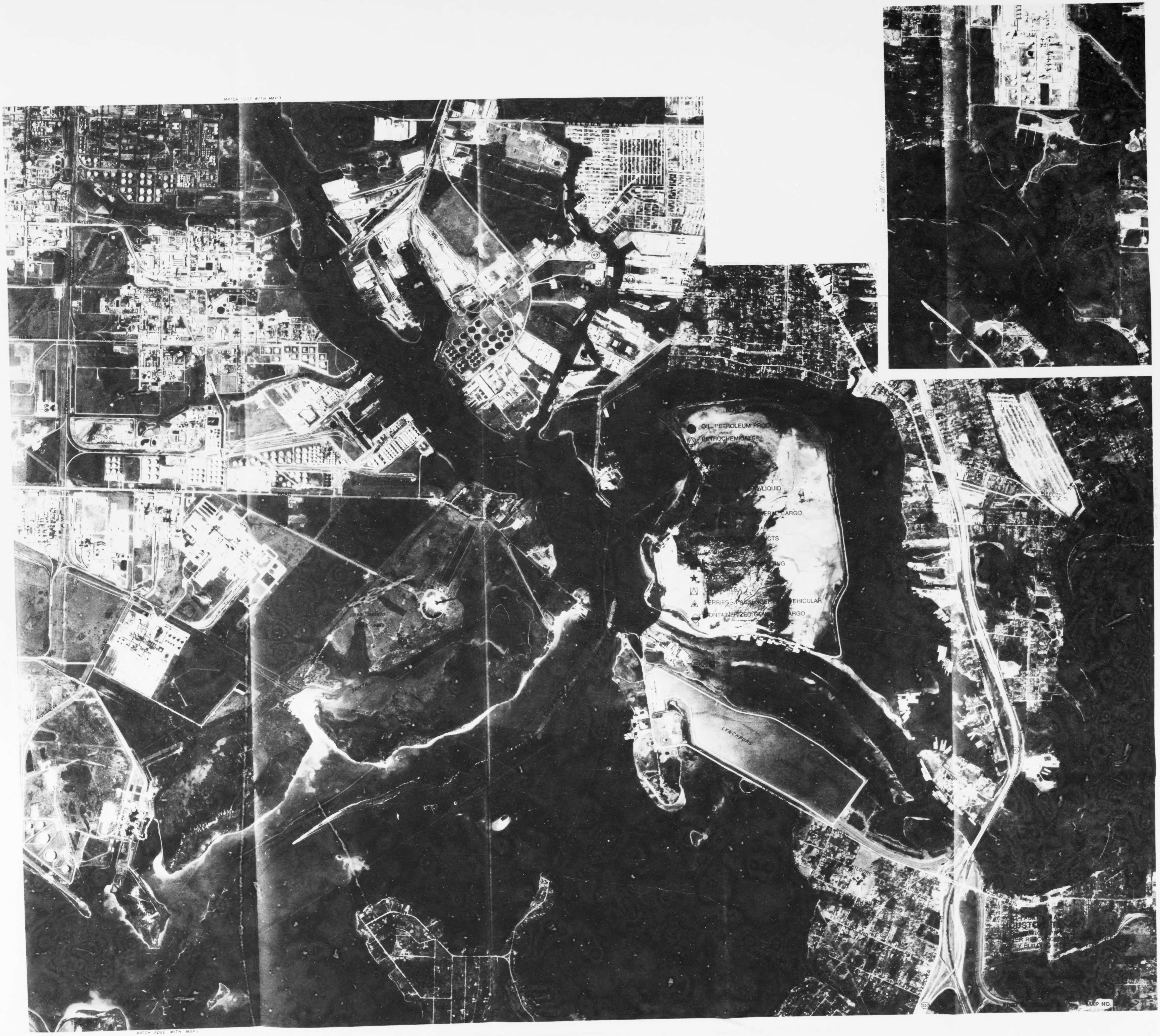
MATCH EDGE WITH MAP 9
ROAD
TERMINAL RD
MAP
OIL, PETROLEUM PRODU
PETROCHEMICALS
/LIQUID
GENERAL CARGO
UCTS
SAND
ING
DRYDOCKING
CHEMICALS
FERRIES - PASSENGER VEHICULAR
CONTAINERIZED GENERAL CARGO
LYNCHBURG
HOUSTON
WATER RESOURCES
BUILDING
MAP NO.
MATCH EDGE WITH MAP 1

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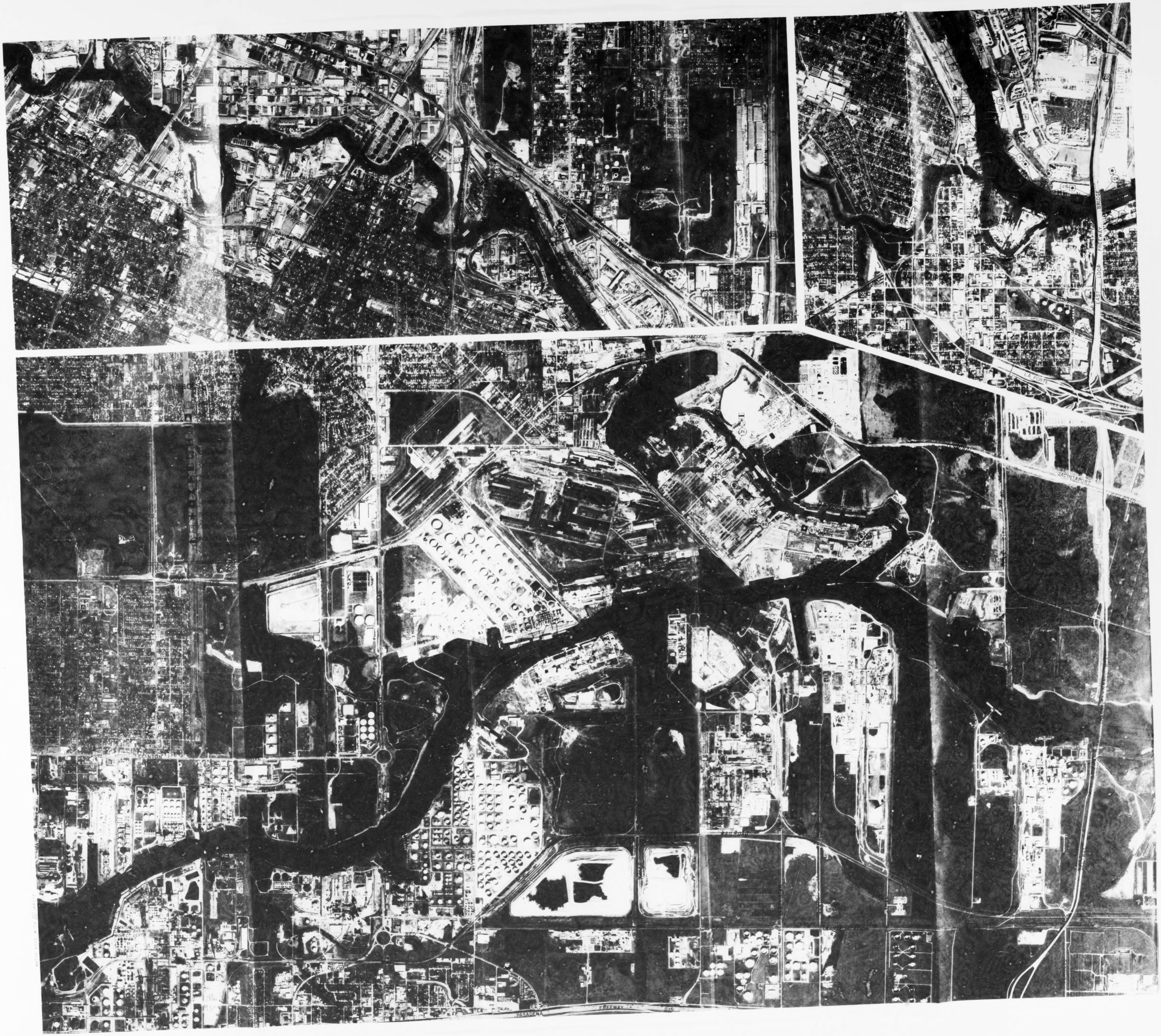
HOUSTON
610
135
133
131
129
128
185
184
176
3
BRADY IS.
EAST LOOP FREEWAY BRIDGE
MANCHESTER
LAWNDALE
BROADWAY
BLVD
LA PORTE FREEWAY
JACINTAPORT
RAILROAD
PACIFIC
WINGATE
CLINTON
TURNING BASIN
PASADENA FREEWAY
225

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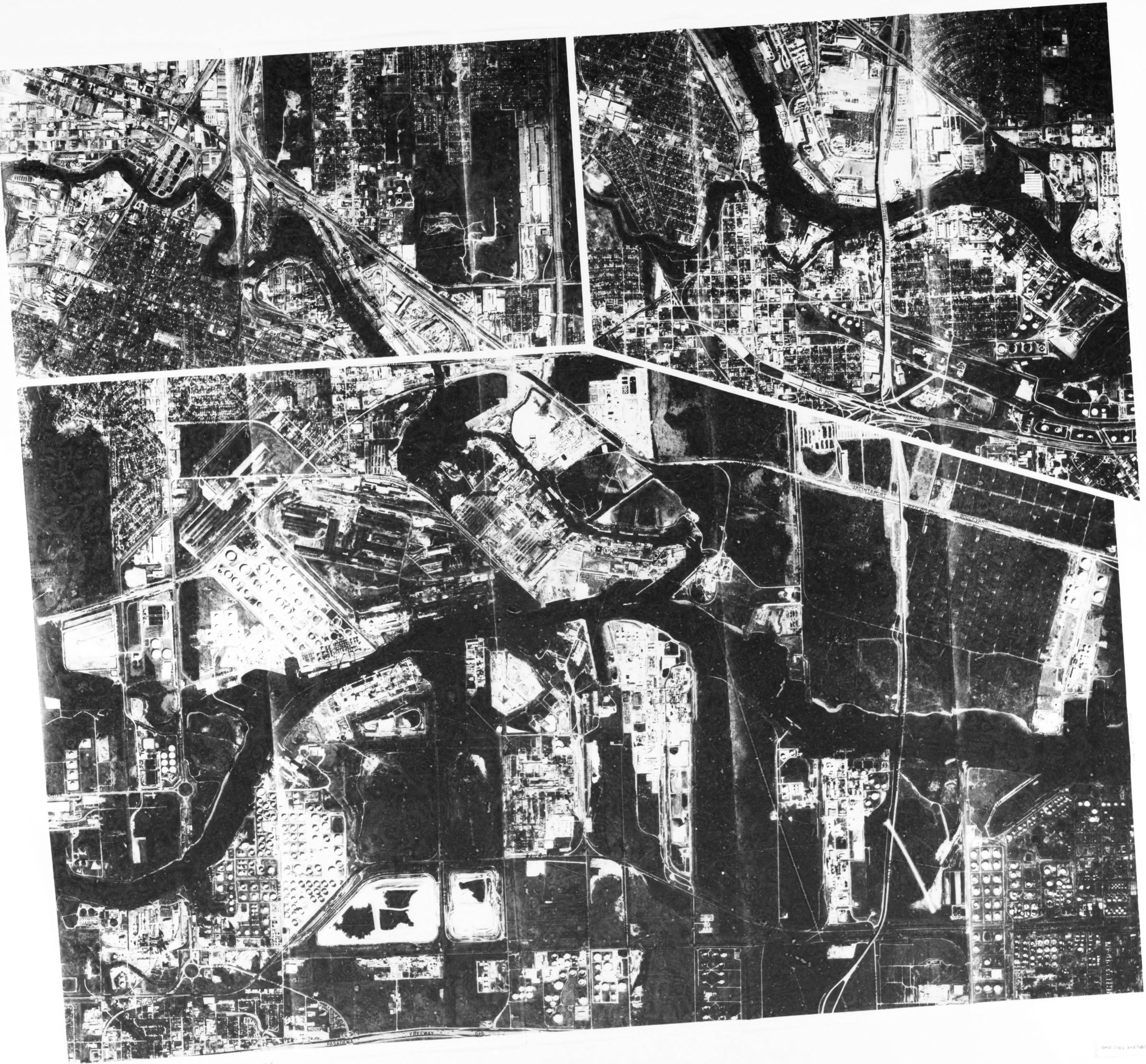
HARVEY WILSON
DR
INDUSTRIAL
NAVIGATION
ESPERSON
WINGATE
PORT CLINTON DRIVE
HOUSTON
H B T RY
HOUSTON
133
131
129
126
176
RATH
BRIDGE
EAST LOOP FREEWAY
610
MANCHESTER
LA PORTE FREEWAY
225
PACIFIC
JACINTAPORT
BOULEVARD
RED
PASADENA FREEWAY
225

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